SOURCE CONTROL EVALUATION REPORT

2245 and 2258 NW Suffolk St., Portland, OR 97210

DEQ ESCI Site ID 1007

Henry P. Oseran Associates, LLC

and the adjacent property

2740 and 2538 NW 22nd Pl., Portland, Oregon 97210

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Acronyms

BES	Bureau of Environmental Services, Portland, Oregon
bgs	below ground surface
BMP	best management practice
BTEX	benzene, toluene, ethylbenzene, and total xylene
BWUD	Beneficial Water Use Determination
City	City of Portland, Oregon
COC	contaminant of concern
COI	contaminant of interest
CSM	conceptual site model
CSO	combined sewer overflow
DEQ	Oregon Department of Environmental Quality
ECSI	Environmental Cleanup Site Information
EPA	U.S. Environmental Protection Agency
ERA	ecological risk assessment
ICP	Independent Cleanup Pathway program, Oregon DEQ
JSCS	Joint Source Control Strategy
MDL	Method Detection Limit
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
MRL	method reporting limit
MSL	mean sea level
NPDES	National Pollutant Discharge Elimination System
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
ppm	parts per million
PQL	Practical Quantitation Limit
PRP	potentially responsible party
QA/QC	quality assurance and quality control
RA	risk assessment
RBC	risk based concentration
RI	remedial investigation
RI/FS	remedial investigation and feasibility study
SAP	sampling and analysis plan
SCD	Source Control Decision
SPCC	Spill Prevention Control and Countermeasure Plan
SVOC	semivolatile organic compound
TPH	total petroleum hydrocarbons
TSS	total suspended solids
ug/kg	micrograms per kilogram
ug/l	micrograms per liter
VCP	Voluntary Cleanup Program, Oregon DEQ
USGS	U.S. Geological Survey
VOC	volatile organic compound

1 INTRODUCTION

1.1 Purpose

The purpose of this Source Control Evaluation (SCE) is to present the investigation results and conclusions for Henry P. Oseran Associates, LLC and Oseran Henry P. et al% Oseran Investment Company properties located at 2245 and 2258 NW Suffolk Street, and 2740 and 2538 NW 22nd Place, respectively, Portland, Oregon (Site). These properties are adjacent to, and include, the States Battery Site, ECSI #1007. This SCE was performed in cooperation with the Oregon Department of Environmental Quality (DEQ) to identify, evaluate, and control sources of contamination that may pose an unacceptable risk to the Willamette River and the Portland Harbor Superfund Site and an EPA information request. This SCE is presented in a manner generally consistent with DEQ's Guidance for Evaluating the Stormwater Pathway at Upland Sites (DEQ, October 2010).

1.2 Objectives

The objective of this SCE is to demonstrate that existing and potential sources of contamination at the Site have been addressed, no additional characterization of source control measures are needed, and to seek 1) a No Further Action (NFA) for the Site; and, 2) a Source Control Determination from DEQ. The objectives of the SCE work have also included the following.

- Identify site characterization and stormwater pathway data gaps;
- Develop a field investigation to address identified data gaps;
- Collect soil, groundwater, sediment and stormwater samples for analysis;
- Assess potential sources of contamination and the stormwater pathway.

1.3 Regulatory Framework

The DEQ August 28, 1997 ECSI report for the States Battery Site #1007 states, in part, the following (italics quoted). The DEQ report was prepared in cooperation with EPA who had performed a Preliminary Assessment (PA) in 1987.

Hazardous Substances/Waste Types: *"Lead and possibly other heavy metals such as arsenic and zinc. Also possibly PCBs."*

Contamination Information*: "States Battery Company operated at this location between 1945 and 1960. Between 1958 and 1960, the Oregon Board of Health found high levels of lead in workers' blood, and unhealthful levels of lead in air samples taken in the building. Little or no information is available about States' operating practices at this site. A 1987 PA expressed concern about the potential for lead wastes to have*

been disposed of on-site, and to have contaminated the nearby Willamette River. Oregon Metal Slitters, a company that generates steel/aluminum scrap waste and miscellaneous lumber waste, and recycles lubricants used in its cutting operations, has occupied this site and the adjacent property at 2245 NW Suffolk since 1971. Blue Mountain Hide and Wool did business at this location sometime between 1960 and 1969, when the building burned down. General Battery Co., a successor company to States, prepared a site history for the General Battery facility in SE Portland (ECSI #45) as part of the investigation at that site. Some of the information provided in that 1987 site history and process description might apply to this company's operations at the 2258 NW Suffolk St. site. For example, in citing possible sources of sulfuric acid and lead contamination at the SE Portland site, General Battery referred to exterior acid storage and cutting areas, and areas where battery oxide pastes were mixed and applied to cells."

Pathways*: "Possible soil, groundwater and surface water contamination. Possible abandoned treatment pond that could be leaching contaminants into the Willamette River, which is located about 1,200 feet northeast of the site. There appear to be no drinking water wells within 1 mile of the site; groundwater in the site vicinity, found at a depth of about 30 feet, is used primarily for industrial supply."*

Status of Investigative or Remedial Action: "*(GMW 8/28/97) To DEQ's knowledge, no subsurface investigation has occurred at this site, despite the possibility that waste management practices associated with a battery manufacturing operation during the years 1945 to 1960 resulted in subsurface contamination. Although DEQ has no specific information about contamination at this site, Site Assessment believes it likely that soil and groundwater beneath the site are contaminated with metals, particularly lead, and possibly PCBs from pre-1960 activities. This belief is based on: 1) the fact that States Battery's operation of a similar facility at a different location in Portland during the 1960s caused significant subsurface contamination at that site; 2) the fact that there were few if any regulations governing waste disposal between 1945 and 1960; and 3) the fact that wet battery manufacturing operations in general generated large quantities of wastes considered to be hazardous. Site Assessment recommends that the property owner obtain information on States Battery's operation at this site, including waste management, treatment, and disposal activities, and based on this information conduct appropriate subsurface characterization. Further state action at this site is a medium priority."*

A response to EPA was made by the landowner in May 2008 after EPA requested information regarding releases or threats of releases of hazardous substances associated with the Portland Harbor Superfund Site pursuant to CERCLA Section 104(e). EPA later made a first request for information follow-up questions on July 10, 2013.

The Site was entered into the DEQ Voluntary Cleanup Program in March 2014.

1.4 Report Organization

- Section 2 – Site Background

  Narration and illustrations of site physical features, including location, , building locations, surface cover, utilities, ownership and operating history, regulatory history and investigations including soil sampling and groundwater monitoring.

- Section 3 – Potential Sources and Contaminants of Interest

  Narration, illustrations and tabulation of potential sources of contamination, list of COIs, and city stormwater piping system.

- Section 4 – Ongoing Stormwater Management and Source Control Measures

  A summary of sampling catch basin sediments.

- Section 5 – Source Control Evaluation

  A description of data evaluation and effectiveness of source control measures.

- Section 6 – Findings and Conclusions

  A narration of identified potential contaminant sources, how such potential sources are controlled, and acceptable risk.

- Section 7 – References
- Section 8 – Limitations

2 SITE BACKGROUND

2.1 Site Location

The Site encompasses four addresses and two landowners. The four addresses are included together as one investigation area in this SCE at the approval of DEQ because the addresses are contiguous. The Site location is shown in Figure 1.

1) 2245 NW Suffolk Street, Portland, OR
   (City of Portland Property ID R119093) and
   2258 NW Suffolk Street, Portland, OR (States Battery Co. ESCI Site ID 1007)
   Landowner: Henry P. Oseran Associates, LLC
   PO Box 10067, Portland, OR 97296-0067

2) 2740 NW 22nd Place, Portland, OR
   (City of Portland Property ID R119099) and
   2538 NW 22nd Place, Portland, OR
   Landowner: Oseran Henry P. et al% Oseran Investment Co.
   PO Box 10067, Portland, OR 97296-0067

2.2 Current Uses

The Site and surrounding properties are zoned Heavy Industrial by the City of Portland. The site slopes northeastward from an elevation of approximately 44.5 feet at the surface in NW 22nd Place to 36.6 feet at the top of the catch basin between 2245 and 2258 NW Suffolk Street.

2245 NW Suffolk Street contains a 27,750 square foot two-story, tilt-up concrete, warehouse and a 3,122 square foot office. 2258 NW Suffolk Street contains a 14,552 square foot two-story, tilt-up concrete warehouse. 2245 and 2258 Suffolk Street warehouses are connected via a single story, 1,700 square foot, service corridor. Asphalt paved NW Suffolk Street separates the two warehouses. The current property use is for storage of castings for a steel foundry and a separate room for machining small parts.

2740 NW 22nd Place contains a 10,980 square foot warehouse surrounded by asphalt paving incorporating a second story office and is used for arborist equipment storage and repair. 2538 NW 22nd Place is a 2,422 square foot single story building surrounded by asphalt paving currently used as an office. 2740 and 2538 NW 22nd Place buildings are connected.

2.3 Historical Uses

The following historical uses are based on Sanborn maps reproduced as overlays onto aerial images in Figures 2 through 5, and other descriptions and air photos submitted in the response to the U.S. EPA CERCLA Section 104(e) Information Request dated May 6, 2008 by Henry P. Oseran Associates, LLC regarding the Portland Harbor Superfund Site.

2245 NW Suffolk Street

Also described as: BLK 1 of Bourne's Addition to the City of Portland (Lots 1 to 10)

1901: Portland Linseed Oil Works of the American Linseed Oil Co, Inc.

1908: Portland Linseed Oil Works

1950: Archer Daniels-Midland Co. Linseed Oil Works

1955(?): Buildings demolished (air photo interpretation)

1962: Henry P. Oseran & Associates LLC acquired the property and constructed a warehouse

1965: Oregon Metal Slitters Inc. steel products

1969: Metal Cutting & W Mfg.; Oregon Metal Slitters

1975: Battery Dlrs.

1981: Haley Wholesale Supply Truck Accessories

1992: Esley Development Corp., Esley Truck Accessories

1975, 1981, 1985, 1992: Oregon Metal Slitters Inc. steel products

1998 to Present: ESCO storage wood molds, machine shop

2258 NW Suffolk Street

1901: Empty lot

1908: Empty lot

1945-1957: Lots 1, 2, 3, 9, and 10: Battery Mfg.

1957(?)-1965: Lots 1, 2, 3, 9, and 10: Blue Mountain Wool and Hide (hide preparation and tanning)

1965: Facility burned down

1970: Empty lot with debris (air photo interpretation)

1968: Henry P. Oseran & Associates LLC purchases property

1986: Henry P. Oseran & Associates LLC constructs warehouse

1998 to Present: ESCO storage wood molds

2740 NW 22nd Place

Also described as BLK 4 of Bourne's Addition to the City of Portland (Lots 1 to 10)

1901: Sims Wood Yard; Benfield Yelsey(?) Fuel Company and loadout

1908: Empty lot

1950: Empty lot

1965-1975: Berkeley Pump Co. Mfrs

1969: Plumbing Supplies Storage; Machine Shop; Wood Truss Storage

1981-1985: Oregon Metal Slitters Warehouse

2005: Bridgetown Cores Inc. foundry baking and mold drying ovens

Present: Urban Forest Pro, arborist equipment

2538 NW 22nd Place

1969: Electric Motor Warehouse

2004?-2007: Kinkade Tool & Machine Works Inc.

2014-2016: IDL, office design

The available Sanborn maps do not indicate that a burned building existed at 2245 NW Suffolk Street. The approximate half-century of property use was as a linseed oil manufacturing operation with large storage tanks. Subsequent to demolition of the linseed oil manufacturing facility (sometime between 1950-1955?), the use of the property has been essentially storage with attached offices and a small parts machine room.

The available historical records indicate that the 2258 NW Suffolk Street property was utilized by States Battery (DEQ ESCI 1007) and Blue Mountain Wool and Hide prior to a fire destroying the building. Generally, hide cleaning operations have been associated with a variety of chemicals including pesticides, solvents, chromium and dyes. The property is currently capped with a warehouse used primarily for storage.

The 2740 NW 22nd Place property has been used as a wood storage yard and fuel loadout for the adjacent railroad according to the available Sanborn maps. The property building has been primarily used for storage. Asphalt paving surrounds the building on the southern and eastern sides.

The 2538 NW 22nd Place is a building which appears to have been expanded between 1963 and 1969, according to available Sanborn maps and air photos. The building on the property, used as a machine shop and general storage, is attached to the building at 2740 NW 22nd Place.

The Site surface slopes gently northeast toward the Willamette River. The Site is at a nominal elevation of 40 feet MSL. There are no surface water bodies on or adjacent

to the Site. The nearest surface water body is the Willamette River, flowing northwestward approximately 1,200 feet northeast of the Site.

City of Portland Water Bureau provides water supply to the Site with no restriction on use of potable water for industrial uses. No water supply wells are located on the property. Groundwater beneath the Site is not used for any purpose, nor are there any future plans for such use.

2.4 Site Investigations

2.4.1 Soil Sampling

An investigation was performed to collect and analyze soil samples according to a revised Data Gap and Stormwater Assessment Workplan as discussed during an Oregon Department of Environmental Quality (DEQ) office meeting and on-Site meetings with DEQ. At the request of DEQ, the work was revised as the drilling was ongoing, including the addition and deletion of soil samples for analyses, and the submission of geologic logs on a daily basis during field work.

Twelve soil borings were completed from September 28 through October 2, 2015 at locations shown in Figure 6. Continuous geologic logs were prepared by Oregon Registered Geologists (Appendix A). Core photographs are included in Appendix B.

Soil cores were obtained from the borings using a GeoProbe 7720DT push probe, dual tube soil sampling system where the probe hole ('boring') is protected and sealed by the outer casing during operations. Dual tube sampling involves using two sets of probe rods to retrieve continuous core samples. One set of rods is driven as an outer casing through which samples are recovered. The second set of rods inside the outer casing includes a sample liner attached to the leading end of the rod string. The inner rods hold the liner in place as the outer casing is driven to fill the liner with material. The inner rods are then retracted to retrieve the liner. Sample liners were kept in a sealed and clean environment prior to use.

All probe holes for soil sampling were completed to depths of approximately 5 to 10-feet into the water table at an estimated nominal elevation of 10-feet MSL. At each boring, soil cores were collected to the full depth of the probe hole, except for zones of core-loss. All borings were backfilled slowly with hydrated bentonite pursuant to Oregon Water Resources (OWR) Rules.

Geologic descriptions of soil and sample locations are shown on the geologic logs. Material encountered has been characterized into 4 general units (excluding the concrete floor or asphalt paving): Fill, Silt, Sand, and Gravel. The units are shown on the geologic cross-sections (Figures 7 and 8).

- **FILL** – Fill unit ranged in color from (very) dark yellowish brown, (very) grayish brown to greenish grey. Mottles were present in some borings up to 7 ft. bgs. Fill was comprised of very stiff – stiff silt with some very fine to fine sand (often micaceous), and sometimes with trace clay having low plasticity. Soil was damp to moist. Scattered weathered granules identified as weathered basalt were present in MW-9 and MW-10. Black organics or burn fragments were found in BG-2, MW-3, MW-4, MW-5, and MW-8. Broken red brick fragments were found in BG-1, BG-2, and MW-5.
- **SILT** - The silt unit ranged in color from dark grayish brown to brown, with occasional regions of dark yellowish brown and olive brown. This unit was very stiff – stiff silt with trace to some clay and trace very fine sand. Often the unit graded between silt with trace clay to very fine sandy silt. Clay was micaceous with low plasticity. Trace gravel was found in MW-3 and MW-10, rounded to subrounded, and ¾" to 1" in size. Dark yellowish brown mottles were found to a maximum depth of 6-14 ft. bgs. in BG-2, MW-4, MW-5, MW-6, and MW-9. The soil was moist, with few damp or saturated zones.
- **SAND** - The unit was (very) dark grayish brown to light olive brown, loose – medium dense, fine-medium sand with little to no fines to trace fines. The sand was generally damp or saturated, micaceous, with slow-rapid delatency. Sand found below gravel unit was black to dark grayish brown, loose, medium dense, fine-coarse sand, moist, with few to no fines. MW-10 sand was 10-15% felsic and 85-95% lithic.
- **GRAVEL** - The gravel unit is the regional aquifer. The unit typically starts at approximately 25 ft. bgs. and extends the total depth of the boring with the water table located below 30 ft. bgs. The unit ranged in color from very dark grayish brown to very dark grey. The gravel was very dense, fine to coarse sandy gravel with trace silt. Gravels included basalt and quartzite and were rounded to subrounded and greater than 2" size. Sometimes this unit included interbeds of very dark grayish brown, dense-medium dense, sand with little to no fines.

  Photoionization detection (PID) readings were taken at approximate 2 foot intervals above the groundwater whenever practical and the levels are recorded on the geologic logs. The PID readings were conducted to identify the potential presence of volatile chemicals in soil. PID readings ranged from 0.9 to 1.6, thus the screening did not indicate presence of volatile constituents in the soil borings.

  Soil samples analyzed for volatile organics were collected by EPA Method 5035A, Closed-System Purge-and-Trap Extraction for Volatile Organics. 40 milliliter vials containing preservative and glass jar sample containers were furnished by the laboratory.

2.4.1.1 Laboratory Results

Laboratory analytical results for 30 soil samples are summarized in Table 1. Laboratory reports of soil analyses are included in Appendix C. Because a large portion of the soil analyses data was flagged by the laboratory as prepped or analyzed beyond the specific holding time, DEQ requested that a data evaluation report be prepared. The data evaluation report is included in Appendix D and concluded that the data can be used for site evaluation and risk assessment purposes.

All soil samples were analyzed for total metals, pesticides (except selected samples in MW-1 and MW-5), PCBs, VOCs (except a selected sample in MW-1), PAHs, pH (except a selected sample in MW-1), TOC (except a selected sample in MW-1), and TPH (except a selected sample in MW-1).

Each analysis was compared to the Screening Level Values (SLVs) listed in DEQ Table 3-1 "Screening Level Values for Soil/Stormwater Sediment, Stormwater, Groundwater, and Surface Water", Rev. 7-16-07.

No individual PCBs were reported above SLVs, except the total PCBs for 9 samples exceed their total SLV. No VOCs were reported above SLVs. No PAHs were reported above SLVs, except the detection of indeo[1,2,3-cd]pyrene in 2 samples above SLV. Di-n-butyl phthalate in 8 samples, and 1 sample with bis(2-ethylhexyl) phthalate, resulted in reporting limits greater than the respective SLV. Arsenic exceeded its SLV, generally by 1 to 4 mg/kg, in 23 samples. The DEQ soil background level for arsenic in the Portland Basin is 8.8 mg/kg. Mercury was detected above its SLV in 7 samples.

Lead was detected above its SLV in 13 samples. The highest lead concentrations were detected in the sample from 3 to 4.5 feet bgs in MW-3 at 2,700 mg/kg, and in the sample from 1.0 to 1.5 feet bgs in MW-10 at 3,200 mg/kg. MW-3 and MW-10 borings are located within the States Battery Site, ECSI #1007. The lead detections are shown in cross-sections A-A' and B'B' (Figures 7 and 8). The two highest lead concentrations may be from demolition material moved during construction of the existing building based on the presence of these soil samples within fill. Lead detected in soil samples collected below fill material in MW-3 and MW-10 are at significantly lower concentrations and near, or below, the SLV for lead. The soil with the highest detected lead concentration was collected beneath the concrete foundation slab of a building serving as a cap, approximately 25 feet to 30 feet above measured groundwater levels, and therefore the soil is not within a leachable pathway. The DEQ soil background level for lead in the Portland Basin is 79 mg/kg (DEQ Fact Sheet dated 3/20/2013 by Annette Dietz).

2.4.1.2 Soil Sampling Conclusions

The following conclusions are based upon evaluation of soil analytical data.

- Highest concentrations of site contaminants of concern, particularly lead, were detected in the surface fill unit.
- No other soil unit contained site contaminants of interest which significantly exceeded their SLV.
- All analyzed soil is considered non-erodible unless exposed, for example, by excavation.
- Additional Site characterization of soil does not appear warranted.

2.4.2 Groundwater Sampling

Groundwater samples were collected and analyzed from four monitor wells in May and October 2016 (see Figure 9). Three monitor wells, MW-1, MW-3 and MW-7 are in the downgradient groundwater flow direction and one well, MW-2, is in the upgradient direction. Well installation logs are included in Appendix E.

Each groundwater sample was analyzed pursuant to a DEQ approved work plan for total recoverable metals using EPA method 6020/6020A/7470, VOCs using EPA method 8260C, PAHs using EPA method 8270D/8270D SIM, cPAHs using EPA method 8270D SIM, TOC using 9060, and TPHs using NWTPH. Each analysis was compared to the PRGs from RAOs 4 and 8, and if a PRG did not exist, the surface value for RAOs 3 and 7 were used and if value did not exist, the JSCS Table 3.1 value was used. Laboratory reports for groundwater analyses are included in Appendix F.

Arsenic exceeded its SLV of 0.02 µg/L in all groundwater samples from both rounds of sampling ranging from 1.04 µg/L in a duplicate from MW-3 to1.92 µg/L in a second round sample from MW-10. Cadmium and manganese each slightly exceeded their respective SLVs only once during the first round of sampling.

Tetrachloroethene exceeded its SLV of 0.2 µg/L in all groundwater samples from both rounds of sampling ranging from 0.23 µg/L in a first round sample from MW-1 to 2.9 µg/L in a first round sample from MW-7. Trichloroethene exceeded its SLV of 0.6 µg/L in the first round of sampling at 1.8 µg/L from MW-2, at 2.8 µg/L from MW-3, 2.7 µg/L from a MW-3 duplicate, and 1.4 µg/L from MW-7. Trichloroethene was not detected in any sample collected during the second round of sampling.

Bis(2-ethylhexyl) phthalate was detected above its SLV of 0.2 µg/L in first round samples from MW-1 at 7.1 µg/L, in MW-3 at 2.6 µg/L, and in MW-7 at 1.3 µg/L. Bis(2-ethylhexyl) phthalate was not detected in any samples from the second round of sampling.

TPH as diesel was detected above the SLV of 2.6 µg/L in all first round samples from 35 µg/L to 100 µg/L and below 38.1 µg/L in all second round samples.

2.4.2.1 Groundwater Sampling Conclusions

The following conclusions are based upon evaluation of groundwater analytical data.

- Shallow soils beneath the Site do not appear to significantly contribute as a source for the metals, VOC, and PAH constituents detected in groundwater samples.

2.4.2.2 Static Water Levels

The following static water levels (SWL) were measured prior to collecting groundwater samples. The levels are shown in feet, mean sea level. The SWLs measured in monitor wells MW-3 and MW-7 were from three to one-hundredth of a foot higher and indicate the flow direction is northwesterly, essentially parallel to the flow direction of the Willamette River.

*	Surveyed Elevation TOC	May 20, 2016 SWL TOC	Oct. 13, 2016 SWL TOC	May 20, 2016 SWL Elevation	Oct. 13, 2016 SWL Elevation
MW-1	39.53	26.65	26.93	**12.88**	**12.6**
MW-2	44.01	31.13	31.48	**12.88**	**12.53**
MW-3	39.76	26.87	27.26	**12.89**	**12.5**
MW-7	40.31	27.42	27.74	**12.89**	**12.57**

*All units in feet, SWL = static water level, TOC = top of collar

2.5 Ecological Risk Assessment

As requested by DEQ, the potential for ecological impacts associated with Site operations were assessed through a Scoping Level 1 Ecological Risk Assessment (ERA) in accordance with DEQ guidelines. The assessment includes a review of Site conditions, likely contaminants of interest, potential pathways of exposure, and a determination of the presence of rare, threatened, and endangered species near the site. A site visit was conducted to determine the ecological features of the Site and current ecological site conditions. The Ecological Level 1 Scoping Report is included in Appendix G.

The Report concludes the following.

- There is no suitable ecological habitat on site as the site is covered with buildings or paved, therefore there are no pathways of exposure for terrestrial or avian receptors.

- There are no surface water bodies on site, and any storm water runoff flows into the City of Portland CSO. Therefore there is little to no potential for impacts to groundwater or surface water on or off site.
- An inventory of threatened and endangered (T&E) species determined that there were no T&E species on site.
- The potential for offsite transport of significant quantities of site related contaminates has been determined to be low. The results of recent groundwater analysis shows that concentrations of site related chemicals of concern are below background or levels of concern for ecological receptors.
- No further ecological evaluation is recommended for this Site.

3 POTENTIAL SOURCES AND CONTAMINANTS OF INTEREST

In response to a review of the workplan, DEQ responded on May 7, 2015 and recommended the following COl be evaluated for soil and groundwater:

- Total and dissolved Metals (Al, Sb, As, Ba, Cd, Cr, Cu, Pb, Mg, Hg, Ni, Ag, and Zn),
- PCBs (individual and total Aroclors for soil only),
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Phthalates,
- Total Petroleum Hydrocarbons (gas, diesel, and Oil),
- Ph,
- Volatile Organic Compounds (VOC),
- Pesticides, and
- Total Organic Carbon.

3.1 Stormwater Conveyance System

The City of Portland stormwater and sewer system in the vicinity of the Site is shown in Figure 10.

A combined gravity main line is located between 2245 and 2258 NW Suffolk Street within the northwest side of NW Suffolk Street from manhole AAX550 to its connection with the NW Sherlock combined gravity main line near manhole AAX545. A sanitary gravity main line is located within the southeast side of NW Suffolk Street and connects to the NW Sherlock combined gravity main line near manhole AAX546. Two catch basins are shown located on the Site near manhole AAX549.

A sanitary gravity line is shown running from the northwest corner of 2740 NW 22nd Place northwesterly to a connection with the sanitary gravity within NW Suffolk Street.

All stormwater and sanitary discharges from the Site flow into the NW Sherlock combined gravity main line and into the City's Westside combined sanitary/stormwater sewer overflow (CSO) system tunnel which connects to a treatment plant. No untreated stormwater flows directly from the Site to the Willamette River.

The Site is almost completely covered with buildings or asphalt and concrete paving so any contamination that may be present in the subsurface would not be exposed to erosion and potential surface discharge. An area adjacent to the BNSF railway, extending from the northwest connection of the covered service corridor between

2245 and 2258 SW Suffolk, southeastward to the boundary of 2740 and 2538 NW 22nd Place, is the property's rail spur covered with gravel, ballast, rail tracks, and minor vegetation within, a catch basin, and downgradient to the main portion of the Site. Extensive deterioration of asphalt paving has occurred upgradient and offsite within NW 22nd Place and southwest of the 2245 NW Suffolk Street warehouse.

4 ONGOING STORMWATER MANAGEMENT AND SOURCE CONTROL MEASURES

4.1 Catch Basins

All stormwater and sanitary discharges from the Site flow into the NW Sherlock combined gravity main line and into the City's Westside combined sanitary/stormwater sewer overflow (CSO) system tunnel which connects to a treatment plant.

There are no outfalls on the Site and no known direct discharges to the Willamette River. There are no NPDES Permits for the Site.

Sediment samples were collected and analyzed from three catch basins, CB-1, CB-2, and CB-3 (Figure 11). Surveyed elevations of catch basin rims and outlet pipes are shown in Figure 12.

4.2 Catch Basin Sediment Sample Method

The procedures used to sample catch basin sediment is described on the Field Logs included in Appendix H.

4.2.1 Catch Basin Sediment Analyses

Sediment samples were analyzed by Apex Laboratories, Tigard, Oregon and the laboratory report is included in Appendix I. A summary of analyses is shown in Table 3 – Catch Basin Sediment Analyses. Results above Portland Harbor PRGs or the JSCS Table 3-1 screening level values (SLVs) are yellow highlighted.

Metal analyses exceeding the Portland Harbor PRG SLV include arsenic and cadmium in all catch basin samples, lead and mercury in CB-2 and CB-3, and zinc in CB-2.

PCB-1254 exceeded Portland Harbor PRG SLV in the sediment sample collected in CB-1. PCB-1260 exceeded Portland Harbor PRG SLV in sediment samples from CB-2 and CB-3. Total PCBs exceeded JCSC Table 3-1 SLV in all catch basin sediment samples.

The following PAHs exceeded Portland Harbor PRG SLVs in the sediment sample from CB-3: benzo(a)pyrene, dibenz[a,h]anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, and indeno[1,2,3-cd]pyrene.

All other COIs were not detected (ND) above their respective detection limits, or if detected, were below SLVs.

4.2.2 Catch Basin Sampling Conclusions

The following conclusions are based upon evaluation of catch basin sediment sampling.

- All sediment in catch basins was below the outlet pipe and no sediment was observed above the rims of the catch basins. Therefore, it is concluded that catch basin sediment will not be a potential surface water pollutant source.
- The source for the detected COIs above Portland Harbor PRG and JCSC Table 3-1 SLVs is apparently offsite. No sources for such detections have been identified in previous onsite investigations.
- All Site stormwater discharges are to a City of Portland treatment plant.

5 SOURCE CONTROL EVALUATION

The Site stormwater discharges to the combined gravity main. Sanitary discharges are from restrooms.

There are no NPDES permits for the Site.

All stormwater discharges within the Site are from catch basins to the City of Portland NW Sherlock combined gravity main and into the City's Westside combined sanitary/stormwater overflow (CSO) system tunnel which connects to a treatment plant.

5.1 Best Management Practices

The DEQ "Recommended Best Management Practices For Storm Water Discharges" Guideline (August 1997) applies to 'facilities that store or stockpile raw or finished materials or products used in manufacturing or processing at their site for material stored outdoors and exposed to storm water runoff.

The Site does not store raw or finished materials or products outdoors. The entire Site is covered with buildings or asphalt paving. The buildings at 2245 and 2258 SW Suffolk Street primarily contain wooden molds for offsite foundry manufacturing. The building at 2740 NW 22nd Place is used to overnight park or repair arborist trucks and related equipment. Sediment in the stormwater drainage channel on the southeast sides of the building at 2740 NW 22nd Place is removed annually by the lessee. The building at 2538 NW 22nd Place contains an office and general storage. It is recommended that sediment from catch basins be removed annually by the landowner.

All surface drainage from the Site flows to catch basins.

6 FINDINGS AND CONCLUSIONS

1. Existing and potential facility-related contaminant sources have been identified and characterized.

    - The Site contains impervious surfaces including buildings and asphalt paving. The Site does not contain erodible soils.
    - Site stormwater is discharged into three catch basins which are part of the stormwater conveyance system which isolates stormwater from entering into the Willamette River.
    - Soil and groundwater have been characterized. Detected COIs are not considered to be potential sources which could contribute to surface contamination. Site buildings and roads serve as caps and prevent underlying soils from becoming erodible.
    - Analytical results from sampling soil, groundwater and sediments are considered representative of Site conditions and the results verify that no pathway exists between the stormwater conveyance system and soil and groundwater.
    - Screening of detected constituents in sediment, soil and groundwater are minor and indicate there is not a need for alternative SCMs.

2. Contaminant sources are being controlled to the extent feasible.

    - Potential sources of stormwater contaminants are being controlled through the stormwater conveyance system on Site which ultimately discharges to a City of Portland treatment plant.
    - A catch basin and debris trough are cleaned on an annual basis. Existing roof drain lines are periodically inspected for damage and repaired as required to minimize the potential contaminant load in runoff sediments.

3. Adequate measures are in place to ensure source control and good stormwater management measures occur in the future.

    - Potential sources of stormwater contaminants are being controlled through the stormwater conveyance system. Stormwater management, debris removal, and spill prevention continue to in place to minimize potential contaminant exposures.

4. Contaminants in stormwater that continue to exceed SLVs in spite of SCMs and stormwater management measures are not likely to result in sediment contamination in the receiving waterbody or contribute to unacceptable risk.

    - Analytical results with minimal exceedance of SLVs from sampling sediment, soil and groundwater indicate that Site stormwater discharging to the City treatment plant conveyance system is not unusually impacting or contributing contaminants to or from the Site or Willamette River.

5. The original concerns expressed by DEQ and placement of a portion of the Site on the ESCI listing as Site #1007 included a 1987 PA statement about the potential for lead wastes to have been disposed of on-site, and to have contaminated the nearby Willamette River. DEQ specifically references potential sulfuric acid and lead contamination, battery oxide wastes, and the groundwater beneath the Site being contaminated with metals, particularity lead and possibly PCBs.

   - No individual PCBs were reported above SLVs, except the total PCBs for 9 soil samples exceed their total SLV.
   - Lead was detected above its SLV in 13 soil samples. The highest lead concentrations were detected in the sample from 3 to 4.5 feet bgs in MW-3 at 2,700 mg/kg, and in the sample from 1.0 to 1.5 feet bgs in MW-10 at 3,200 mg/kg. MW-3 and MW-10 borings are located within the States Battery Site, ECSI #1007. Other soil samples collected and analyzed for lead in MW-3 and MW-10 resulted in minimal SLV exceedances.
   - The potential for offsite transport of significant quantities of site related contaminates has been determined to be low. The results of groundwater analysis shows that concentrations of site related chemicals of concern are below background or levels of concern for ecological receptors.

7 REFERENCES

GeoPro Environmental Services LLC, "Data Gap Investigation and Stormwater Assessment Workplan, for 2245 and 2258 NW Suffolk St., Portland, OR, DEQ ESCI Site ID 1007, Henry P. Oseran Associates, LLC and 2740 and 2538 NW 22nd Pl., Portland, Oregon, Oseran Henry P. at al% Oseran Investment Company", prepared for Oregon DEQ, October 17, 2014, revised per DEQ request, May, June and July 2015 (Addendum 2).

Henry P. Oseran & Associates LLC, "U.S. EPA CERCLA Section 104€ Information Request", Oseran Property Suffolk St., 2245 NW Suffolk St., Portland, Oregon, May 6, 2008.

Oregon Department of Environmental Quality, 2010 Revision, "Guidance for Evaluating the Stormwater Pathway at Upland Sites", January 2009.

8 LIMITATIONS

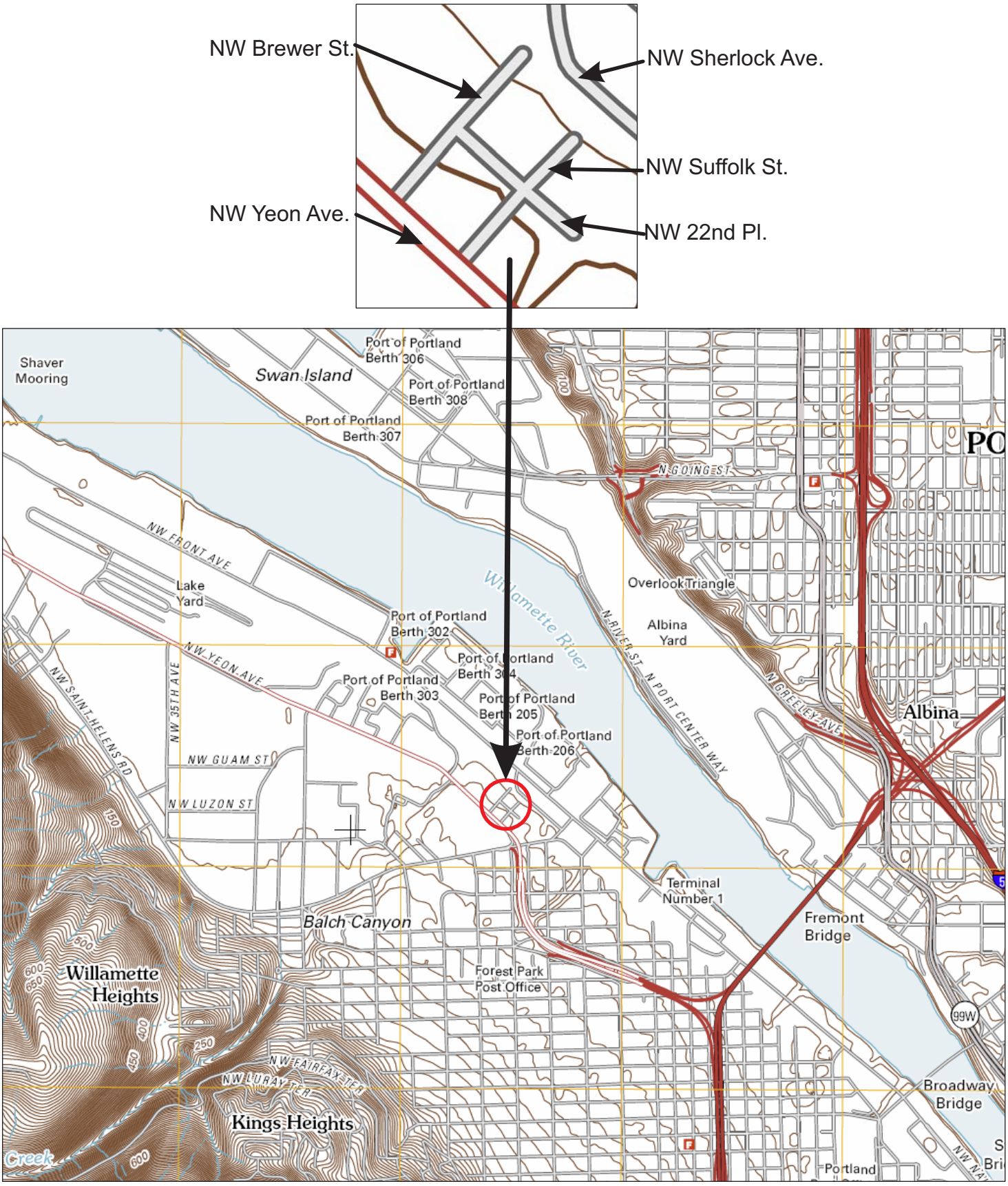
This report has been prepared for the landowner(s), landowner's agents, and government agencies and Consultant does not accept liability or responsibility for detachment, partial use, separation, or reproduction without color, if used, which may depict significant information, by third parties and such use shall be at user's sole risk. Records, documentation, and personal communication have been relied upon in good faith; however, no responsibility is accepted for errors or omissions of previous work. Services were performed in accordance with generally accepted professional practices, in the same or similar localities, related to the nature of the work accomplished, at the time services are rendered. Conclusions and findings apply only to present conditions, and opinions expressed are subject to revision when additional or new information is presented and reviewed. In the event of changes in future development plans as understood at the time of this report, the conclusions and recommendations made herein shall be invalid until given the opportunity to review and modify this report in writing.

Richard C. Kent, R.G.

GeoPro LLC

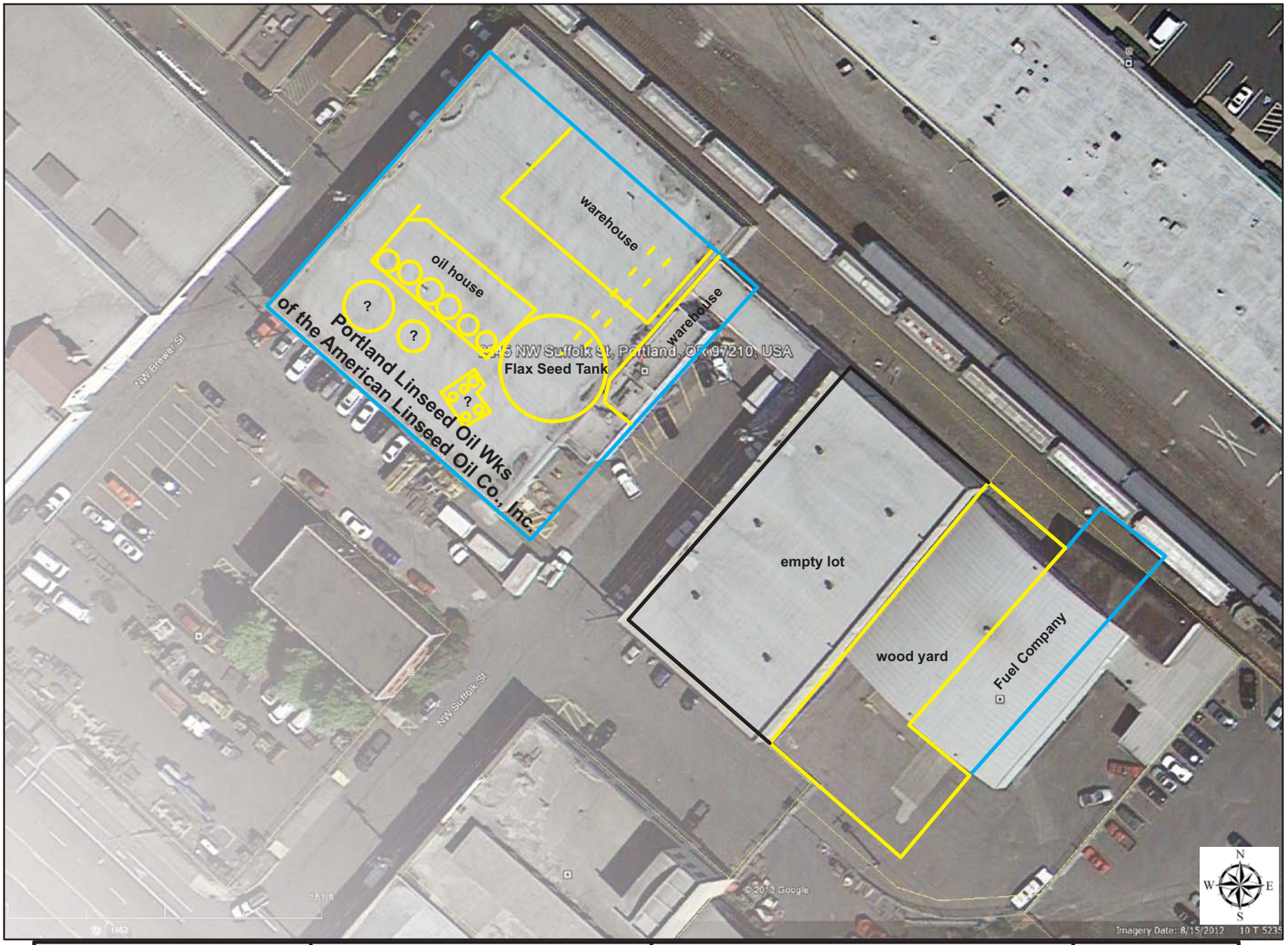
Cc: Eva DeMaria, EPA: via DeMaria.Eva@epa.gov (digital PDF)

FIGURES

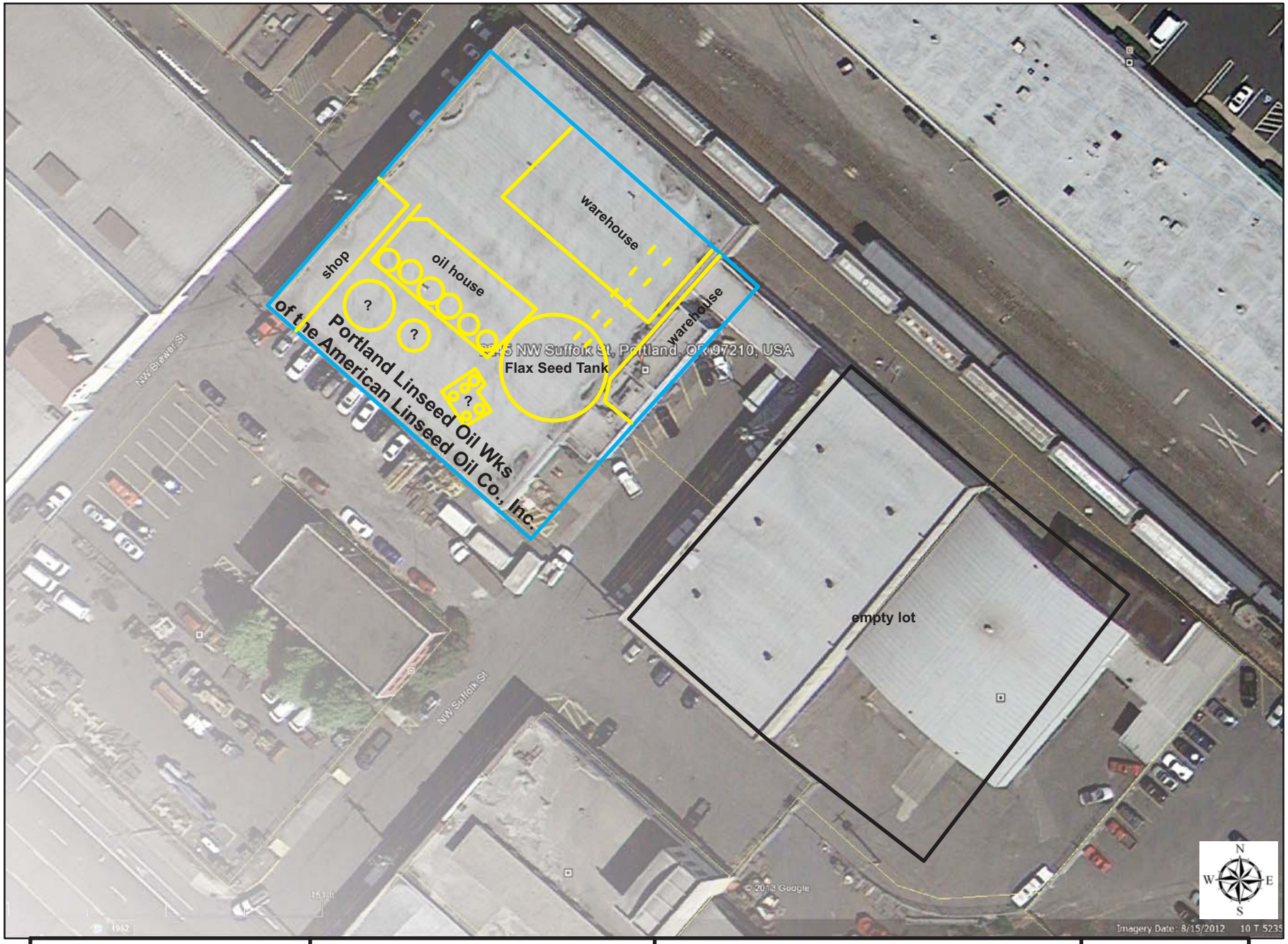


map source: 2011 USGS Portland 7.5 minute quadrangle

GeoPro LLC PO Box 26 Battle Ground, WA 98604	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon	LOCATION Source Control Evaluation Report	**FIGURE 1**



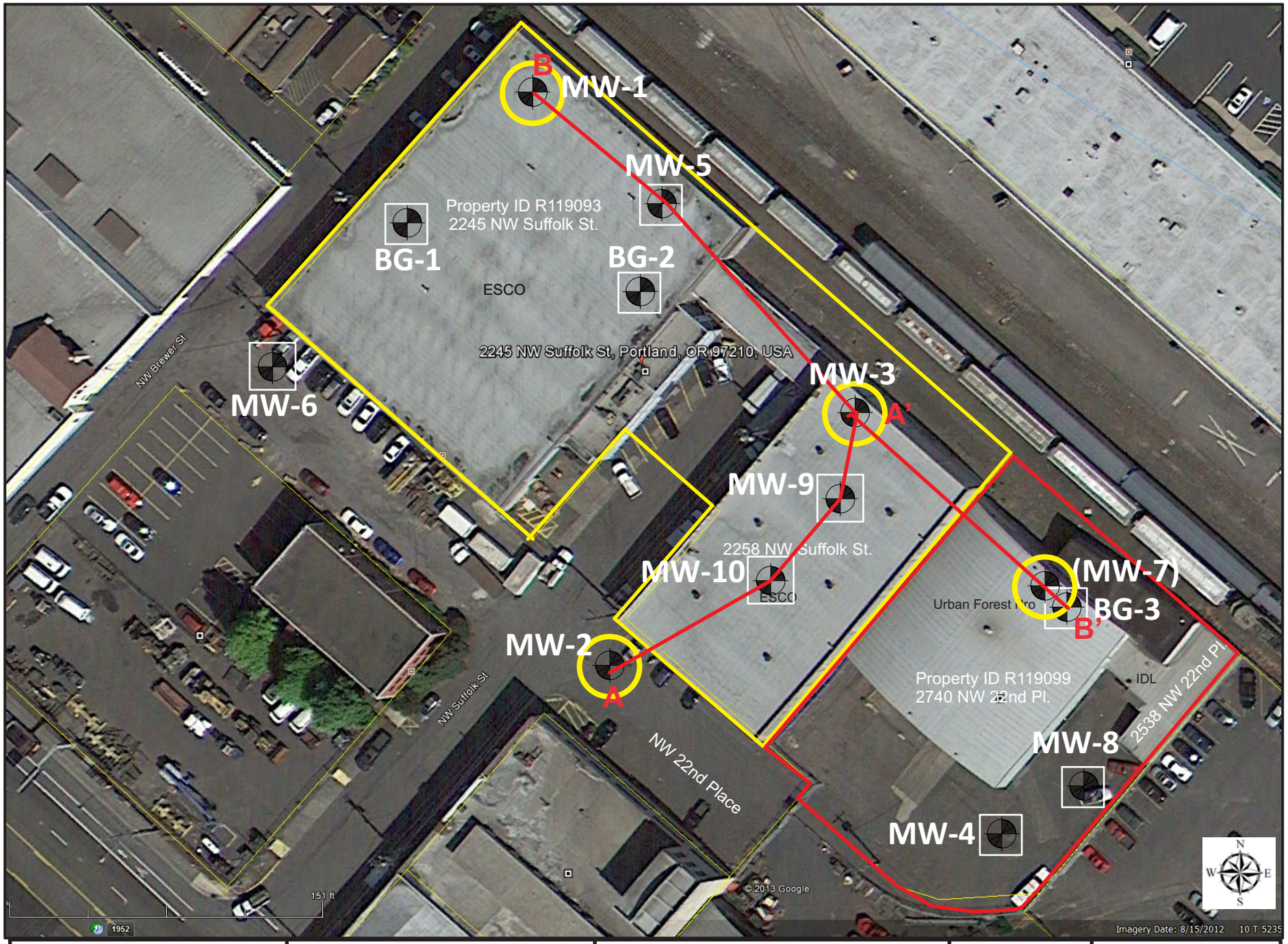
GeoPro LLC PO Box 26 Battle Ground, WA 98604	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon	1901 SANBORN MAP OVERLAY Source Control Evaluation Reort	**FIGURE 2**



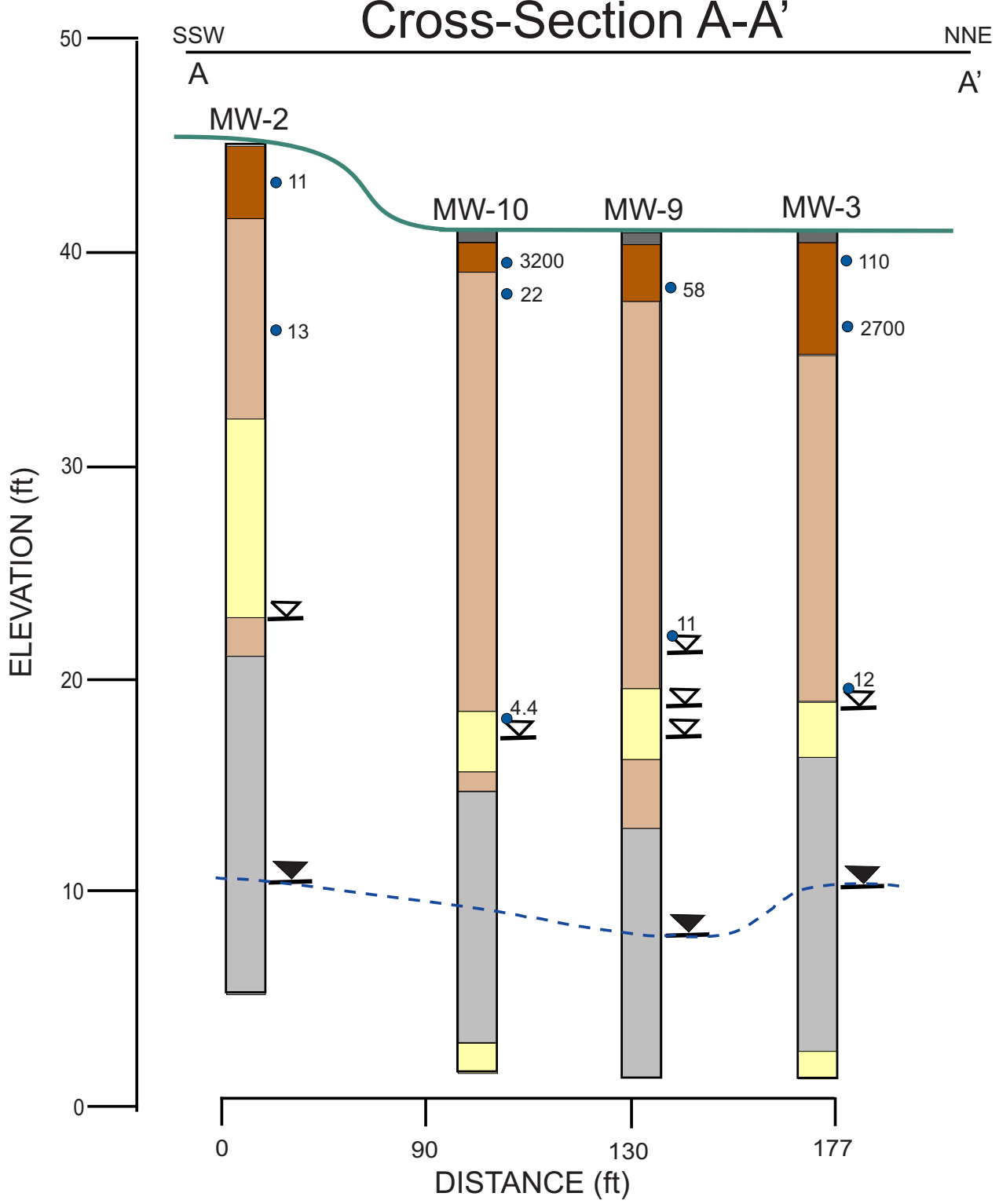
GeoPro LLC PO Box 26 Battle Ground, WA 98604	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon	1908 SANBORN MAP OVERLAY Source Control Evaluation Reort	**FIGURE 3**

GeoPro LLC PO Box 26 Battle Ground, WA 98604	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon	1950 SANBORN MAP OVERLAY Source Control Evaluation Reort	**FIGURE 4**

GeoPro LLC PO Box 26 Battle Ground, WA 98604	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon	1969 SANBORN MAP OVERLAY Source Control Evaluation Reort	**FIGURE 5**



GeoPro LLC PO Box 26 Battle Ground, WA 98604	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon	DRILLING LOCATION MAP Source Control Evaluation	Drill Hole Location	**FIGURE 6**

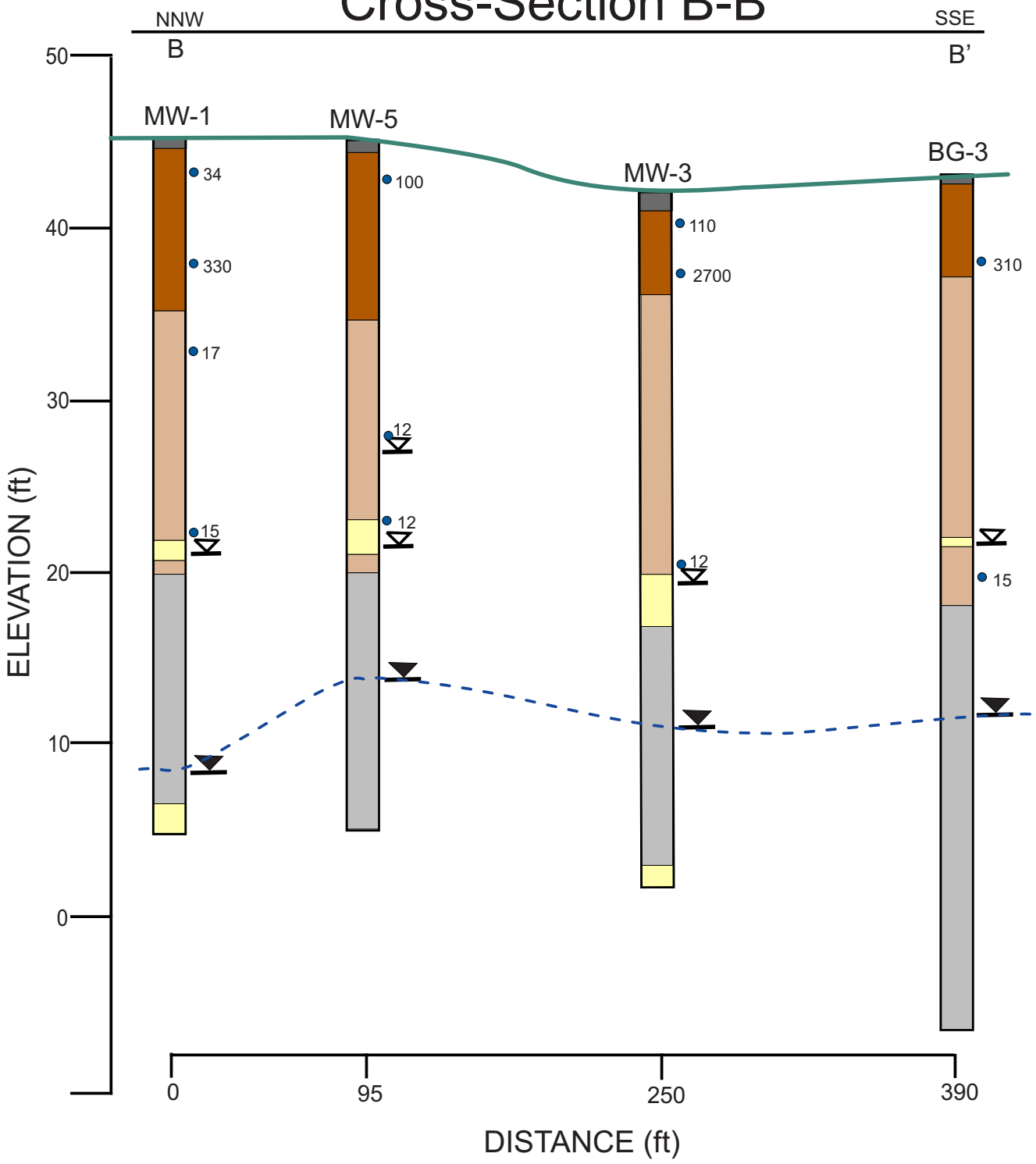


LEGEND

- Concrete-Warehouse flooring
- Fill
- Silt
- Sand
- Gravel
- SWL after drilling
- Perched water zones
- 11 Pb (mg/kg)
- SWL
- Surface

GeoPro LLC PO Box 26 Battle Ground, WA 98604	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon	STRATIGRAPHIC CROSS SECTION A-A' Source Control Evaluation	**FIGURE 7**

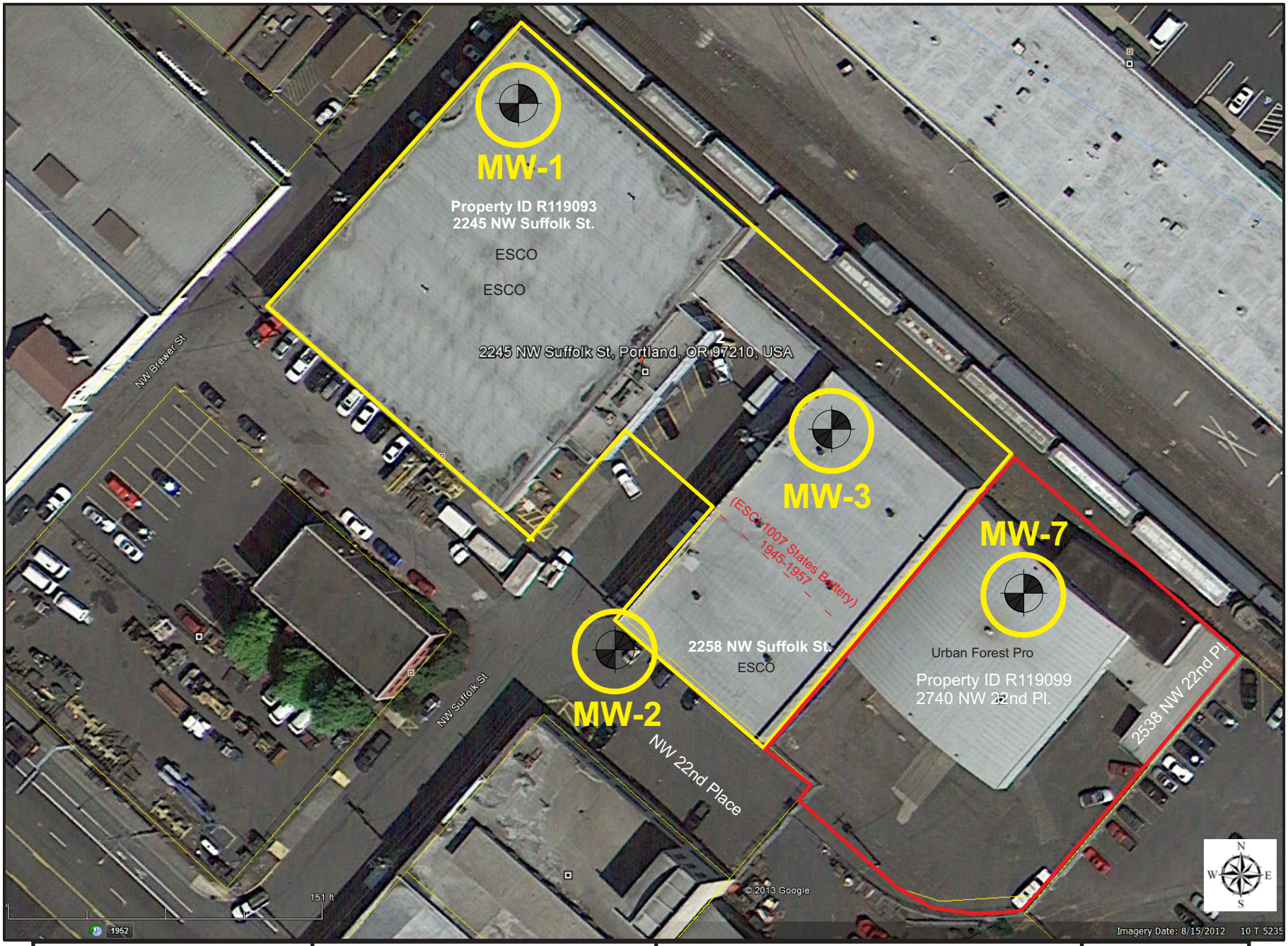
Cross-Section B-B'



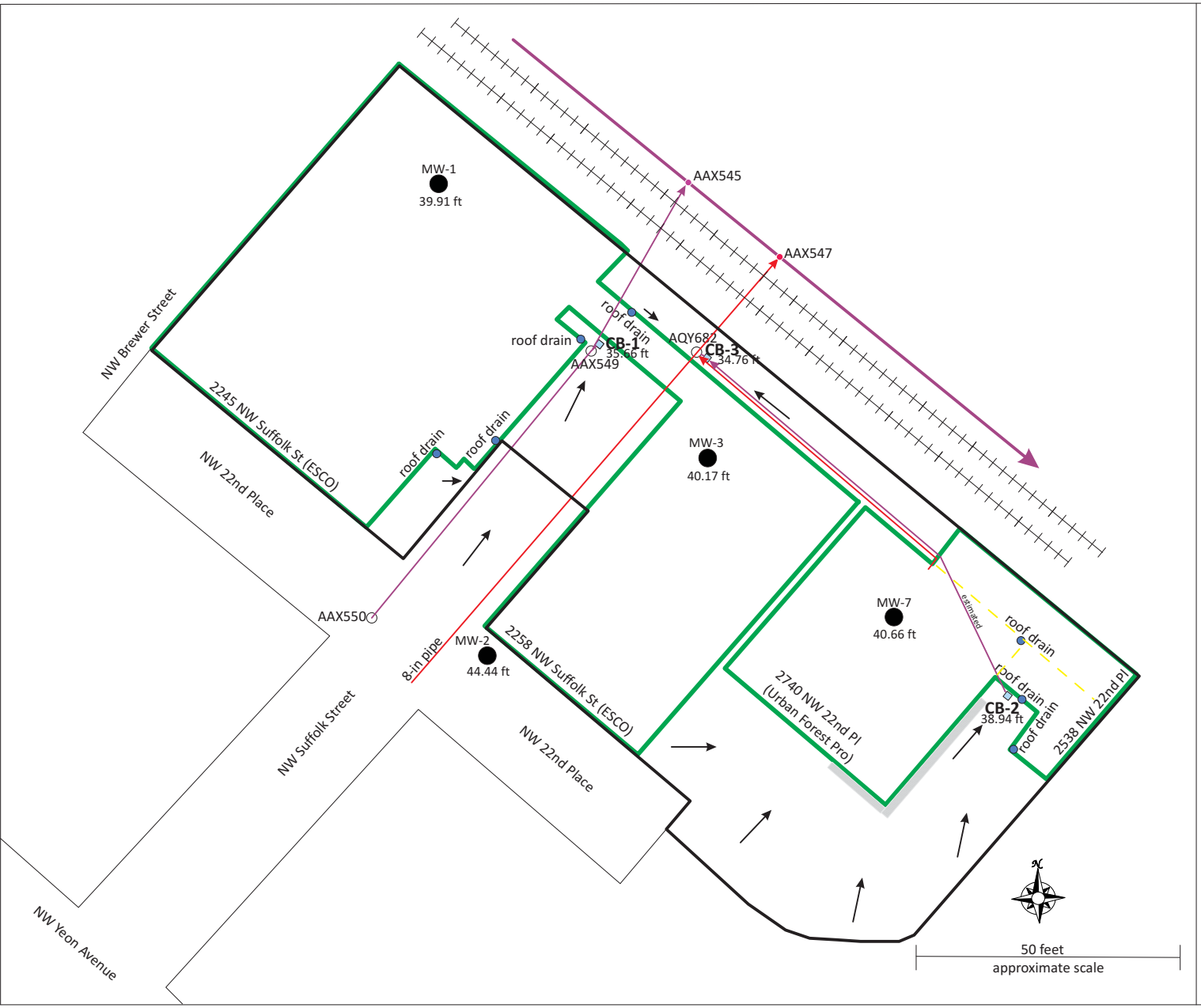
LEGEND

- Concrete-Warehouse flooring
- Fill
- Silt
- Sand
- Gravel
- SWL after drilling
- Perched water zones
- 11 Pb (mg/kg)
- SWL
- Surface

GeoPro LLC PO Box 26 Battle Ground, WA 98604	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon	STRATIGRAPHIC CROSS SECTION B-B' Source Control Evaluation Report	**FIGURE 8**



GeoPro LLC PO Box 26 Battle Ground, WA 98604	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon	**GROUNDWATER MONITORING WELLS LOCATION MAP** Source Control Evaluation Report	**FIGURE 9**



Legend

- Site Boundary
- Buildings
- BN Railroad Tracks
- Monitor Well - surface elevation
- Catch Basin - outlet elevation
- Roof Drain
- Drain Channel
- Sanitary Gravity Main
- Combined Gravity Main
- Manhole with Sewer Asset Number Assigned by City of Portland Bureau of Environmental Services
- Surface Drainage Flow Direction

City of Portland Bureau of Environmental Services Sewer Assets Map

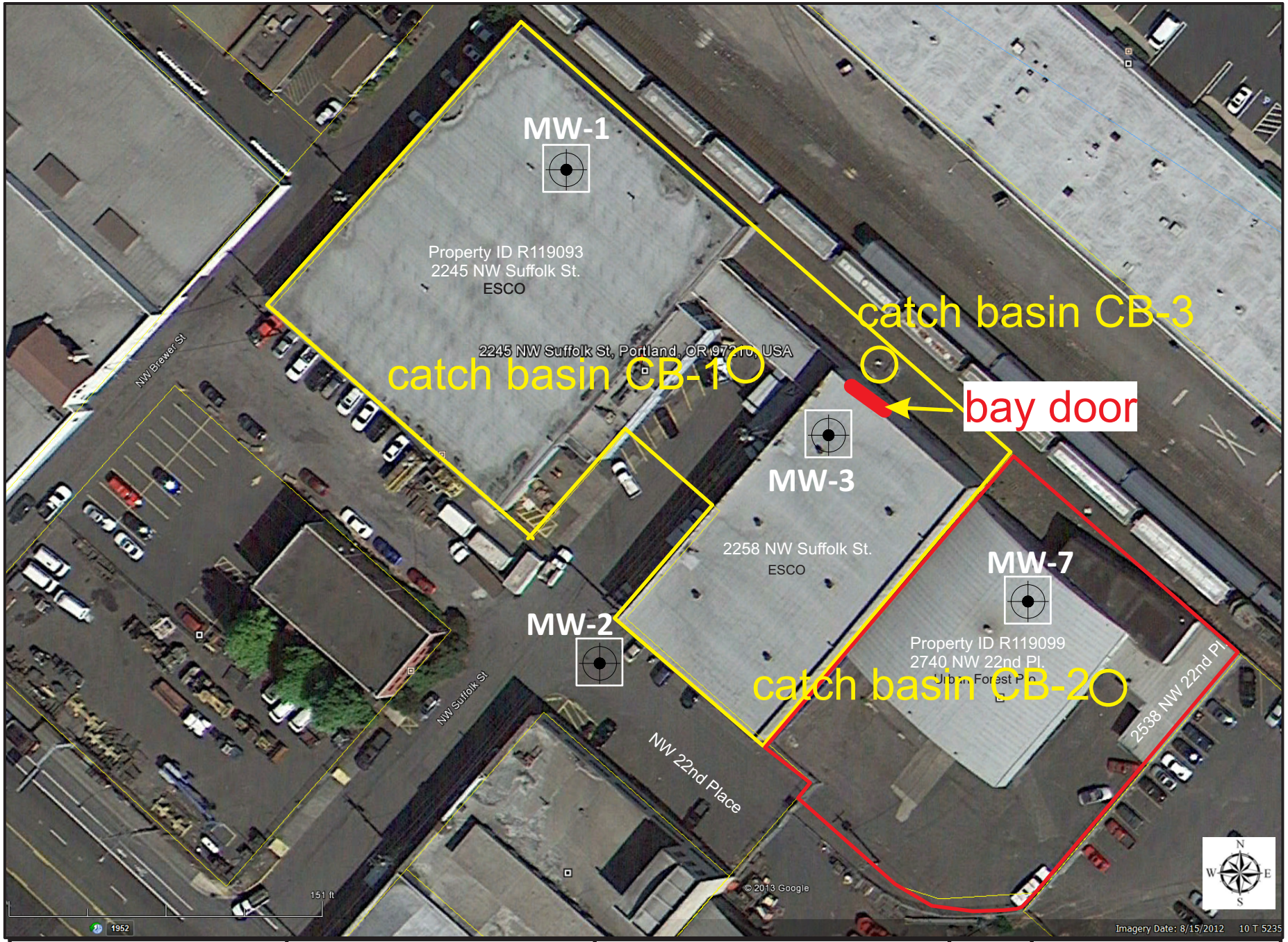
Prepared by

GeoPro LLC
PO Box 26
Battle Ground, WA 98604
geopro@comcast.net

2258, 2245 NW Suffolk St.,
2740 NW 22nd Pl. Portland, OR
Source Control Evaluation

STORMWATER FACILITIES

FIGURE 10



GeoPro LLC PO Box 26 Battle Ground, WA 98604	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon (ESCI #1007)	**CATCH BASIN LOCATION MAP** Source Control Evaluation	Monitor Well	**Figure 11**

FIGURE 12
GeoPro LLC, SCE Report

SCALE 1" = 50 FEET

50 0 20 30 40 50

NOTES:

1. FIELD WORK WAS CONDUCTED MAY 20, 2016.
2. HORIZONTAL DATUM: HORIZONTAL COORDINATES ARE OREGON STATE PLANE (NAD83), NORTH ZONE 3601 BASED UPON GPS TIES FROM THE TRIMBLE VRS GPS NETWORK.
3. VERTICAL DATUM: ELEVATIONS ARE BASED ON CITY OF PORTLAND BENCHMARK NO. 3316. LOCATED AT THE NW CORNER OF NW BREWER STREET AND NW YEON AVENUE. ELEVATION = 50.138 FEET (CITY OF PORTLAND DATUM).
4. THIS MAP DOES NOT CONSTITUTE A PROPERTY BOUNDARY SURVEY.
5. SURVEY IS ONLY VALID WITH SURVEYOR'S STAMP AND SIGNATURE.

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON
JANUARY 9, 2007
NICK WHITE
70652LS
RENEWS: 6/30/18

DATE: 06/17/16

SITE MAP

EXHIBIT **A**

2245 NW SUFFOLK STREET

AKS ENGINEERING & FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
P: 503.563.6151 F: 503.563.6152 aks-eng.com

DRWN: JOH
CHKD: NSW
AKS JOB: 5349

DWG: 5349CXMPL | LAYOUT1

TABLES

TABLE 1
SOIL ANALYSIS
Source Control Evaluation

Analyte	SLV	BG-1			BG-2		BG-3		MW-1				MW-2		MW-3			MW-4		MW-5			MW-6		MW-8		MW-9		MW-10		
		BG-1-3	BG-1-7-A	BG-1-23	BG-2-3	BG-2-24	BG-3-4	BG-3-22.8	MW-1-2	MW-1-9	MW-1-12	MW-1-22-A	MW-2-2	MW-2-8-A	MW-3-1.5	MW-3-4.5	MW-3-21-A	MW-4-4	MW-4-24	MW-5-2.5	MW-5-17-A	MW-5-22	MW-6-3.5	MW-6-24.2	MW-8-4	MW-8-24	MW-9-2	MW-9-19-A	MW-10-1.5	MW-10-3.5-A	MW-10-23-A
Total Metals (EPA 6020A/7471A) mg/kg																															
Aluminum		11000	26000	16000	20000	29000	19000	15000	24000	4800	27000	22000	28000	22000	22000	15000	16000	18000	10000	20000	20000	18000	21000	11000	20000	15000	24000	17000	15000	29000	13000
Antimony	64	0.32	0.75	0.48	0.99	0.78	3.4	0.50	1.2	4.2	0.80	0.67	0.55	0.51	0.84	7.6	0.48	0.43	0.22	1.6	0.59	0.49	0.68	0.17	0.34	0.29	0.80	0.51	11	0.84	0.22
Arsenic	7	4.5	13	7.3	8.2	13	11	7.2	10	3.5	12	8.9	9.0	8.1	9.5	8.5	7.7	6.5	4.6	10	9.9	7.5	12	3.8	8.0	5.1	10	8.8	18	16	5.0
Barium		120	210	170	210	290 F1	190	150	180	280	200	180	150	150	230	180	160	150	110	150	150	160	270	86	200	150	230	160	190	210	170
Cadmium	1.00	0.21	0.24	0.38	0.54	0.57	0.92	0.30	0.38	0.98	0.26	0.25	0.23	0.20	0.70	0.56	1.1	0.23	0.19	0.33	0.26	0.29	0.25	0.14	0.24	0.28	0.68	0.88	0.15	0.17	0.35
Chromium	111	13	22	17	34	31 F1	58	18	25	11	23	20	22	25	26 B	23 B	20 B	22	15	23	18	19	21	19	23	17	27 B	25 B	21	24 F1	18
Copper	149	21	31	29	30	51 F1	75	23	35	36	31	30	26	23	27	37	28	25	19	37	26	25	29	20	16	21	27	35	22	23	21
Lead	17	9.9	14	11	68	20	310	15	34	330	17	15	11	13	110	2700	12	10	3.8	100	12	12	16	3.0	19	7.2	58	11	3200	22	4.4
Magnesium		5300	6900	6700	4500	13000	3700	6200	5800	3300	6000	7300	6100	6000	5400	4000	6700	6000	6100	4700	6600	7200	6300	7600	4600	5800	6000	6300	3600	6800	5200
Nickel	48.6	17	21	25	18	41 F1	21	20	27	19	20	22	18	19	19	16	23	20	29	21	19	21	21	36	15	22	19	22	16	21	26
Silver	5	0.027 J	0.042 J	0.051 J	0.14	0.091 J	4.2	0.13	0.067 J	0.061 J	0.052 J	0.064 J	0.043 J	0.039 J	0.20	0.13	0.072 J	0.046 J	0.013 J	0.083 J	0.086 J	0.056 J	0.032 J	0.012 J	0.13	0.028 J	0.097 J	0.067 J	0.13	0.014 J	0.016 J
Zinc	459	61	85	78	140	150 F1	430	81	150	550	84	83	72	73	190	350	84	72	54	160	80	83	81	50	91	68	120	460	120	76	55
Mercury	0.07	0.0076 J	0.013 J	0.026	0.086	.015 J	1.8	0.070	0.059		0.018 J	0.014 J	0.029	0.018 J	0.071	0.13	0.018 J	0.015 J	<0.022	0.094	0.013 J	0.015 J	0.018 J	<0.022	0.047	0.013 J	0.057	<0.026	0.22	<0.024	0.014 J
Pesticides (EPA 8081B) ug/Kg																															
2,4'-DDD	0.33	<0.22 H	<0.26	<0.26 H	<1.2 H	<0.27 H	<1.3 H	<0.27 H	0.29 H		<0.26 H		<1.3 H	<0.26	0.48 J H	<2.3 H	<0.28	<0.53 H	<0.45 H	1.1 H	<0.25		<1.2 H	<0.22 H	<0.52 H	<0.26 H	0.44 J H	<0.27	<0.25 H	<0.25	<0.22
2,4'-DDE	0.33	<0.23 H	<0.26	<0.26 H	<1.2 H	<0.27 H	<1.3 H	<0.27 H	<0.24 H		<0.26 H		<1.3 H	<0.26	<1.2 H	<2.3 H	<0.28	<0.53 H	<0.45 H	<1.1 H	<0.25		<1.2 H	<0.22 H	<0.52 H	<0.26 H	<1.2 H	<0.27	<0.25 H	<0.25	<0.22
2,4'-DDT	0.33	<0.24 H	<0.26	<0.26 H	<1.2 H	<0.27 H	<1.3 H	<0.27 H	<0.24 H		<0.26 H		<1.3 H	<0.26	0.42 J H	<2.3 H	<0.28	<0.53 H	<0.45 H	1.2 H	<0.25		<1.2 H	<0.22 H	<0.52 H	<0.26 H	<1.2 H	<0.27	<0.25 H	<0.25	<0.22
4,4'-DDD		<0.22 H	<0.26	0.052 J H	<1.2 H	<0.27 H F1	6.0 H B	<0.27 H	<0.24 H		<0.26 H		<1.3 H	0.099 J B	2.1 H	<2.3 H	0.063 J	<0.53 H	<0.45 H	1.8 H	0.036 J		<1.2 H	<0.22 H	<0.52 H	<0.26 H	1.2 H	0.028 J B	<0.25 H	0.026 J B	0.093 J B
4,4'-DDE		<0.23 H	<0.26	<0.26 H	<1.2 H	<0.27 H F1	<1.3 H	<0.27 H	1.5 H		<0.26 H		<1.3 H	0.035 J	1.5 H	<2.3 H	0.059 J	<0.53 H	<0.45 H	4.0 H	0.079 J		<1.2 H	<0.22 H	<0.52 H	<0.26 H	1.4 H	<0.27 F1	<0.25 H	0.023 J F1	<0.22
4,4'-DDT		<0.24 H	0.036 J	0.13 J H	<1.2 H	<0.27 H F1 *	2.7 H B *	<0.27 H *	2.3 H		<0.26 H		<1.3 H *	0.026 J	2.4 H	<2.3 H	0.088 J	<0.53 H *	<0.45 H *	4.8 H	<0.25		<1.2 H *	<0.22 H *	<0.52 H *	<0.26 H *	1.4 H	<0.27 F1 F2	<0.25 H	<0.25	0.025 J
Aldrin	40	<0.11 H	<0.13	0.12 J H	<0.60 H	<0.14 H	<0.65 H	<0.13 H	<0.12 H		0.068 J H		<0.63 H	<0.13	<0.62 H	<1.2 H	<0.14	<0.26 H	<0.23 H	<0.57 H	<0.13		<0.61 H	<0.11 H	<0.26 H	<0.13 H	<0.60 H	<0.13 F1	<0.12 H	0.061 J F1	<0.11
alpha-BHC		<0.11 H	<0.13	0.054 J H	<0.60 H	<0.14 H	<0.65 H	<0.13 H	<0.12 H		0.57 H		<0.63 H	<0.13	<0.62 H	<1.2 H	<0.14	<0.26 H	<0.23 H	<0.57 H	<0.13		<0.61 H	<0.11 H	<0.26 H	<0.13 H	<0.60 H	<0.13	<0.12 H	<0.13	<0.11
alpha-Chlordane		<0.11 H	<0.13	0.065 J H	<0.60 H	<0.14 H F1	<0.65 H	<0.13 H	<0.12 H		<0.13 H		<0.63 H	0.055 J	<0.62 H	<1.2 H	<0.14	<0.26 H	<0.23 H	<0.57 H	<0.13		<0.61 H	<0.11 H	<0.26 H	<0.13 H	<0.60 H	<0.13 F1	<0.12 H	<0.13	<0.11
beta-BHC		<0.11 H	<0.13	<0.13 H	<0.60 H	<0.14 H * F1	48 H B *	<0.13 H *	<0.12 H		0.87 H		<0.63 H *	<0.13	<0.62 H	<1.2 H	0.095 J	<0.26 H *	<0.23 H *	<0.57 H	<0.13		<0.61 H *	<0.11 H *	<0.26 H *	<0.13 H *	<0.60 H	<0.13 F1	<0.12 H	0.28	<0.11
cis-Nonachlor		<0.22 H	<0.26	<0.26 H	<1.2 H	<0.27 H	<1.3 H	<0.27 H	<0.24 H		<0.26 H		<1.3 H	<0.26	<1.2 H	<2.3 H	<0.28	<0.53 H	<0.45 H	<1.1 H	<0.25		<1.2 H	<0.22 H	<0.52 H	<0.26 H	<1.2 H	<0.27	<0.25 H	<0.25	<0.22
delta-BHC		<0.11 H	<0.13	0.068 J H	<0.60 H	0.19 H B * F1	17 H B *	<0.13 H *	<0.12 H		0.71 H		0.27 J H B *	<0.13	<0.62 H	<1.2 H	<0.14	<0.26 H *	<0.23 H *	<0.57 H	<0.13		0.49 J H B *	<0.11 H *	<0.26 H *	<0.13 H *	<0.60 H	<0.13 F1 F2	<0.12 H	0.13	<0.11
Dieldrin	0.0081	<0.22 H	<0.26	2.3 H	<1.2 H	<0.27 H F1	0.81 J H B	<0.27 H	<0.24 H		<0.26 H		<1.3 H	0.035 J	0.68 J H	<2.3 H	<0.28	<0.53 H	<0.45 H	<1.1 H	<0.25		<1.2 H	<0.22 H	<0.52 H	<0.26 H	<1.2 H	<0.27 F1	<0.25 H	<0.25	<0.22
Endosulfan I		<0.11 H	<0.13	<0.13 H	<0.60 H	<0.14 H F1	<0.65 H	<0.13 H	<0.12 H		<0.13 H		<0.63 H	<0.13	<0.62 H	<1.2 H	0.029 J	0.062 J H B	<0.23 H	<0.57 H	<0.13		<0.61 H	<0.11 H	<0.26 H	<0.13 H	<0.60 H	<0.13 F1	<0.12 H	<0.13 F1	<0.11
Endosulfan II		<0.22 H	0.15 J	<0.26 H	<1.2 H	0.069 J H B F1	<1.3 H	<0.27 H	<0.24 H		<0.26 H		<1.3 H	<0.26	<1.2 H	<2.3 H	<0.28	<0.53 H	<0.45 H	<1.1 H	0.083 J		0.11 J H B	<0.22 H	<0.52 H	<0.26 H	<1.2 H	<0.27	<0.25 H	<0.25 F1	<0.22
Endosulfan sulfate		<0.22 H	<0.26	<0.26 H	<1.2 H	0.33 H B * F1 F2	<1.3 H *	<0.27 H *	<0.24 H		<0.26 H		0.23 J H B *	<0.26	<1.2 H	<2.3 H	0.066 J	<0.53 H *	<0.45 H *	<1.1 H	<0.25		<1.2 H *	0.079 J H B *	<0.52 H *	0.13 J H B *	<1.2 H	<0.27 F1 F2	<0.25 H	<0.25	<0.22
Endrin	207	<0.22 H	0.021 J	<0.26 H	<1.2 H	<0.27 H F1 *	<1.3 H *	<0.27 H *	<0.24 H		<0.26 H		<1.3 H *	<0.26	<1.2 H	<2.3 H	<0.28	<0.53 H *	0.11 J H B *	<1.1 H	0.091 J		<1.2 H *	<0.22 H *	<0.52 H *	<0.26 H *	<1.2 H F2 F1	<0.27 F1	<0.25 H	<0.25	<0.22
Endrin aldehyde		<0.22 H	<0.26	0.81 H	<1.2 H	1.5 H B	<1.3 H	<0.27 H	<0.24 H		<0.26 H		<1.3 H	<0.26	<1.2 H	<2.3 H	<0.28	0.85 H B	<0.45 H	<1.1 H	<0.25		<1.2 H	0.83 H B	<0.52 H	<0.26 H	<1.2 H	<0.27	<0.25 H	<0.25 F1	0.14 J B
Endrin ketone		<0.22 H	0.074 J B	0.095 J H	<1.2 H	<0.27 H F1 *	<1.3 H *	<0.27 H *	<0.24 H		<0.26 H		<1.3 H *	0.29 B	<1.2 H	<2.3 H	0.51 B	<0.53 H *	<0.45 H *	<1.1 H	0.077 J B		<1.2 H *	<0.22 H *	<0.52 H *	<0.26 H *	<1.2 H *	0.12 J B	<0.25 H	0.29 B	
gamma-BHC (Lindane)	4.9	<0.11 H	<0.13	<0.13 H	<0.60 H	0.045 J H B F1 *	4.8 H B *	<0.13 H *	<0.12 H		0.23 H		<0.63 H *	0.0097 J B	<0.62 H	<1.2 H	<0.14	<0.26 H *	<0.23 H *	<0.57 H	<0.13		<0.61 H *	<0.11 H *	<0.26 H *	<0.13 H *	<0.60 H	<0.13 F1 F2	<0.12 H	<0.13 F1	<0.11
gamma-Chlordane		<0.11 H	<0.13	<0.13 H	<0.60 H	<0.14 H F1	<0.65 H	<0.13 H	<0.12 H		<0.13 H		<0.63 H	<0.13	<0.62 H	<1.2 H	0.12 J	<0.26 H	<0.23 H	<0.57 H	0.055 J		<0.61 H	<0.11 H	<0.26 H	<0.13 H	<0.60 H	0.064 J	<0.12 H	0.10 J	<0.11
Heptachlor	10	<0.22 H	<0.26	<0.26 H	<1.2 H	<0.27 H	26 H B	<0.27 H	<0.24 H		1.7 H		<1.3 H	<0.26	<1.2 H	<2.3 H	<0.28	<0.53 H	0.38 J H B	<1.1 H	0.087 J B		<1.2 H	<0.22 H	<0.52 H	<0.26 H	<1.2 H	0.10 J B	<0.25 H	<0.25	<0.22
Heptachlor epoxide	16	<0.11 H	0.0022 J B	<0.13 H	<0.60 H	0.020 J H B * F1	<0.65 H *	<0.13 H *	<0.12 H		<0.13 H		<0.63 H *	0.015 J	<0.62 H	<1.2 H	0.0082 J B	<0.26 H *	0.015 J H B *	<0.57 H	<0.13		<0.61 H *	<0.11 H *	<0.26 H *	<0.13 H *	<0.60 H	0.0078 J B F1	<0.12 H	0.15 B	0.012 J B
Methoxychlor		<1.1 H	0.078 J	<1.3 H	<6.0 H	<1.4 H * F1 F2	<6.5 H *	<1.3 H *	<1.2 H		<1.3 H		<6.3 H *	0.12 J	1.3 J H	<12 H	0.17 J	<2.6 H *	<2.3 H *	<5.7 H	0.046 J		<6.1 H *	<1.1 H *	<2.6 H *	<1.3 H *	<6.0 H F1	0.11 J F1	<1.2 H	<1.3	0.24 J
oxy-Chlordane		<0.22 H	<0.26	<0.26 H	<1.2 H	<0.27 H	<1.3 H	<0.27 H	<0.24 H		<0.26 H		<1.3 H	<0.26	<1.2 H	<2.3 H	<0.28	<0.53 H	<0.45 H	<1.1 H	<0.25		<1.2 H	<0.22 H	<0.52 H	<0.26 H	<1.2 H	<0.27	<0.25 H	<0.25	<0.22
trans-Nonachlor		<0.22 H	<0.26	<0.26 H	<1.2 H	<0.27 H	<1.3 H	<0.27 H	<0.24 H		<0.26 H		<1.3 H	<0.26	<1.2 H	<2.3 H	<0.28	<0.53 H	<0.45 H	<1.1 H	<0.25		<1.2 H	<0.22 H	<0.52 H	<0.26 H	<1.2 H	<0.27	<0.25 H	<0.25	<0.22
DCB Decachlorobiphenyl		1.8 X	3.2 X	0.76 X	0.68 X	5.1 X	8.5 X	7.4 X	0.89 X		1.1 X		5.7 X	3.8 X	5.7	9.7 X	3.9 X	5.8 X	9.4 X	1.7 X	3.3 X		6.7 X	4.9 X	5.0 X	5.9 X	3.4 X	3.5 X	2.5 X	3.8	3.4
Tetrachloro-m-xylene		2.1	4.3	1.5 X	1.9 X	4.2	12 X	4.2	0.84 X		1.7 X		5.9 X	4.1	5.1	4.2	5.0	4.7 X	7.9 X	2.4	3.7		5.9 X	3.9 X	4.8 X	3.7	4.7	4.4	3.6	3.7	3.2
Chlordane (technical)	0.37	<1.1 H	<1.3	1.4 H	<6.0 H	<1.4 H *	<6.5 H *	<1.3 H *	<1.2 H		17 H E		<6.3 H *	<1.3	<6.2 H *	<12 H *	<1.4	<2.6 H *	<2.3 H *	<5.7 H	<1.3		<6.1 H B *	<1.1 H *	<2.6 H *	<1.3 H *	<6.0 * H	<1.3	<1.2 * H	<1.3	<1.1
Toxaphene		<11 H	<13	<13 H	<60 H	<14 H	<65 H	<13 H	<12 H		<13 H		<63 H	<13	<62 H	<120 H	<14	<26 H	<23 H	<57 H	<13		<61 H	<11 H	<26 H	<13 H	<60 H	<13	<12 H	<13	<11
PCBs (8082A) ug/Kg																															
PCB-1016	530	<1.1	<1.3	<1.3	<1.2	<1.4 F2 *	<1.3 H	<1.3	<1.2	<1.4 F1 F2	<1.3	<1.3	<1.3	<1.3	<6.2	<12	<1.4	<1.3 *	<1.1	<1.1	<1.3	<1.4	<1.2	<1.1	<1.3	<1.3	<6.0	<1.3	<1.2	<1.3	<1.1
PCB-1221		<1.2	<1.4	<1.4	<1.3	<1.5 *	<1.4 H	<1.5	<1.3	<1.5	<1.4	<1.4	<1.4	<1.5	<6.8	<13	<1.5	<1.5 *	<1.2	<1.2	<1.4	<1.5	<1.3	<1.2	<1.4	<1.4	<6.6	<1.5	<1.4	<1.4	<1.2
PCB-1232		<1.2	<1.4	<1.4	<1.3	<1.5 *	<1.4 H	<1.5	<1.3	<1.5	<1.4	<1.4	<1.4	<1.5	<6.8	<13	<1.5	<1.5 *	<1.2	<1.2	<1.4	<1.5	<1.3	<1.2	<1.4	<1.4	<6.6	<1.5	<1.4	<1.4	<1.2
PCB-1242		<1.1	<1.3	<1.3	<1.2	<1.4 *	<1.3 H	<1.3	<1.2	<1.4	<1.3	<1.3	<1.3	<1.3	<6.2	<12	<1.4	<1.3 *	<1.1	<1.1	<1.3	<1.4	<1.2	<1.1	<1.3	<1.3	<6.0	<1.3	<1.2	<1.3	<1.1
PCB-1248	1500	<1.2	2.0	<1.4	<1.3	<1.5 *	<1.4 H	<1.5	<1.3	<1.5	<1.4	<1.4	<1.4	<1.5	<6.8	<13	<1.5	<1.5 *	<1.2	<1.2	2.4	<1.5	<1.3	<1.2	<1.4	<1.4	<6.6	<1.5	<1.4	<1.4	<1.2
PCB-1254	300	11	<1.3	<1.3	14 P	<1.4 *	<1.3 H	<1.3	<1.2	120	<1.3	7.4	<1.3	<1.3	13	18	<1.4	<1.3 *	<1.1	7.2	<1.3	<1.4	<1.2	<1.1	<1.3	<1.3	<6.0	<1.3	<1.2	<1.3	<1.1
PCB-1260	200	<1.1	<1.3	<1.3	<1.2	<1.4 F1 *	<1.3 H	<1.3	7.0	<1.4 F1	<1.3	<1.3	<1.3	<1.3	<6.2	14	<1.4	<1.3 *	<1.1	<1.1	<1.3	<1.4	<1.2	<1.1	<1.3	<1.3	<6.0	<1.3 F1	<1.2	<1.3	F1 F2 <1.1
PCB-1262		<1.1	<1.3	<1.3	<1.2	<1.4 *	<1.3 H	<1.3	<1.2	<1.4	<1.3	<1.3	<1.3	<1.3	<6.2	<12	<1.4	<1.3 *	<1.1	<1.1	<1.3	<1.4	11	<1.1	<1.3	<1.3	<6.0	<1.3	<1.2	<1.3	<1.1
PCB-1268		<1.1	<1.3	<1.3	<1.2	<1.4 *	<1.3 H	<1.3	<1.2	<1.4	<1.3	<1.3	<1.3	<1.3	<6.2	<12	<1.4	<1.3 *	<1.1	<1.1	<1.3	<1.4	<1.2	<1.1	<1.3	<1.3	<6.0	<1.3	<1.2	<1.3	<1.1
PCBs, Total	0.39	11	2.0	<1.4	14	<1.5	<1.4 H	<1.5	7.0	120	<1.4	7.4	<1.4	<1.5	13	32	<1.5	<1.5	<1.2	7.2	2.4	<1.5	11	<1.2	<1.4	<1.4	<6.6	<1.5	<1.4	<1.4	<1.2
VOCs (EPA 8260C) ug/Kg																															
1,1,1,2-Tetrachloroethane		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41 F1	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
1,1,1-Trichloroethane		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
1,1,2,2-Tetrachloroethane		<10	<16 H	<14	<11	<13	<16 H	0	<12		<12	<13	<16	<16 H	<11	<10	<18 H	<16	<12	<10	<16 H	<14	<19	<9.3	<14	<15 H	<11	<17 H	<13	<15 H	<12 H
1,1,2-Trichloroethane		<12	<20 H	<17	<13	<16	<19 H	0	<15		<14	<16	<19	<19 H	<14	<12	<21 H	<19	<15	<12	<19 H	<17	<22	<11	<16	<18 H	<14	<20 H	<15	<18 H	<15 H
1,1-Dichloroethane		5.0 J	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
1,2,3-Trichloropropane		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
1,2-Dibromoethane		<16	<26 H	<22	<18	<21	<26 H	0	<20		<19	<22	<25	<26 H	<18	<16 F1	<28 H	<25	<20	<16	<25 H	<22	<30	<15	<22	<24 H	<18	<27 H	<20	<24 H	<20 H
1,2-Dichloroethane		<16	<26 H	<22	<18	<21	<26 H	0	<20		<19	<22	<25	<26 H	<18	<16	<28 H	<25	<20	<16	<25 H	<22	<30	<15	<22	<24 H	<18	<27 H	<20	<24 H	<20 H
1,2-Dichloropropane		<12	<20 H	<17	<13	<16	<19 H	0	<15		<14	<16	<19	<19 H	<14	<12	<21 H	<19	<15	<12	<19 H	<17	<22	<11	<16	<18 H	<14	<20 H	<15	<18 H	<15 H
2-Butanone		<410	<650 H	<560	<450	<530	<640 H	0	<490		<470	<540	<630	<650 H	<450	<410	<710 H	<630	<490	<400	<640 H	<560	<750	<370	<540	<600 H	<460	<670 H	<510	<610 H	<500 H
2-Chloroethyl vinyl ether		<200	<330 H	<280	<220	<270	<320 H	0	<250		<240	<270	<310	<320 H	<230	<210	<350 H	<320	<250	<200	<320 H	<280	<370	<190	<270	<300 H	<230	<340 H	<250	<310 H	<250 H
2-Hexanone		<200	<330 H	<280	<220	<270	<320 H	0	<250		<240	<270	<310	<320 H	<230	<210	<350 H	<320	<250	<200	<320 H	<280	<370	<190	<270	<300 H	<230	<340 H	<250	<310 H	<250 H
4-Methyl-2-pentanone		<200	<330 H	<280	<220	<270	<320 H	0	<250		<240	<270	<310	<320 H	<230	<210	<350 H	<320	<250	<200	<320 H	<280	<370	<190	<270	<300 H	<230	<340 H	<250	<310 H	37 J H
Acetone		<810	<1300 H	<1100	<900	<1100	<1300 H	0	<990		<950	<1100	<1300	<1300 H	<900	<820	<1400 H	<1300	<990	<800	<1300 H	<1100	<1500	<740	<1100	<1200 H	<920	<1300 H	580 J	<1200 H	<1000 H

TABLE 1
SOIL ANALYSIS
Source Control Evaluation

Analyte	SLV	BG-1			BG-2		BG-3		MW-1				MW-2		MW-3			MW-4		MW-5			MW-6		MW-8		MW-9		MW-10		
		BG-1-3	BG-1-7-A	BG-1-23	BG-2-3	BG-2-24	BG-3-4	BG-3-22.8	MW-1-2	MW-1-9	MW-1-12	MW-1-22-A	MW-2-2	MW-2-8-A	MW-3-1.5	MW-3-4.5	MW-3-21-A	MW-4-4	MW-4-24	MW-5-2.5	MW-5-17-A	MW-5-22	MW-6-3.5	MW-6-24.2	MW-8-4	MW-8-24	MW-9-2	MW-9-19-A	MW-10-1.5	MW-10-3.5-A	MW-10-23-A
Acrolein		<1200	<2000 H	<1700	<1300	<1600	<1900 H	0	<1500		<1400	<1600	<1900	<1900 H	<1400	<1200	<2100 H	<1900	<1500	<1200	<1900 H	<1700	<2200	<1100	<1600	<1800 H	<1400	<2000 H	<1500	<1800 H	<1500 H
Acrylonitrile		<410	<650 H	<560	<450	<530	<640 H	0	<490		<470	<540	<630	<650 H	<450	<410 F1	<710 H	<630	<490	<400	<640 H	<560	<750	<370	<540	<600 H	<460	<670 H	<510	<610 H	<500 H
Benzene		8.8 J	<26 H	<22	<18	<21	8.1 J H	0	<20		<19	<22	<25	<26 H	<18	6.9 J	<28 H	19 J B	<20	<16	<25 H	<22	<30	<15	93	<24 H	<18	6.3 J H	7.8 J	5.5 J H	<20 H
Bromochloromethane		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
Bromodichloromethane		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
Bromoform		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
Bromomethane		<140	<230 H	<200	<160	<190	<230 H	0	<170		<170	<190	<220	<230 H	<160	<140	<250 H	<220	<170	<140	<220 H	<200	<260	<130	<190	<210 H	<160	<240 H	<180	<210 H	<170 H
Carbon disulfide		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	8.4 J H	<51	<61 H	<50 H
Carbon tetrachloride		<20	<33 H	<28	<22	<27	<32 H	0	<25		<24	<27	<31	<32 H	<23	<21	<35 H	<32	<25	<20	<32 H	<28	<37	<19	<27	<30 H	<23	<34 H	<25	<31 H	<25 H
Chlorobenzene		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
Chlorodibromomethane		<20	<33 H	<28	<22	<27	<32 H	0	<25		<24	<27	<31	<32 H	<23	<21	<35 H	<32	<25	<20	<32 H	<28	<37	<19	<27	<30 H	<23	<34 H	<25	<31 H	<25 H
Chloroethane		<410	<650 H	<560	<450	<530	<640 H	0	<490		<470	<540	<630	<650 H	<450	<410	<710 H	<630	<490	<400	<640 H	<560	<750	<370	<540	<600 H	<460	<670 H	<510	<610 H	<500 H
Chloroform		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
Chloromethane		<100	<160 H	<140	<110	<130	<160 H	0	<120		<120	<130	<160	<160 H	<110	<100	<180 H	<160	<120	<100	<160 H	<140	<190	<93	<140	<150 H	<110	<170 H	14 J	<150 H	<120 H
cis-1,2-Dichloroethene		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	11 J H	<51	<61 H	<50 H
cis-1,3-Dichloropropene		<16	<26 H	<22	<18	<21	<26 H	0	<20		<19	<22	<25	<26 H	<18	<16	<28 H	<25	<20	<16	<25 H	<22	<30	<15	<22	<24 H	<18	<27 H	<20	<24 H	<20 H
Dibromomethane		<61	<98 H	<84	<67	<80	<97 H	0	<74		<71	<81	<94	<97 H	<68	<62	<110 H	<95	<74	<60	<96 H	<84	<110	<56	<82	<90 H	<69	<100 H	<76	<92 H	<75 H
Dichlorodifluoromethane		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
Ethylbenzene		<41	<65 H	<56	<45	<53	8.5 J H	0	<49		<47	<54	<63	<65 H	<45	<41	4.0 J H	<63	<49	<40	<64 H	<56	<75	<37	210	<60 H	<46	6.7 J H	15 J	5.7 J H	2.6 J H
Iodomethane		<200	<330 H	<280	<220	<270	<320 H	0	<250		<240	<270	<310	<320 H	<230	<210	<350 H	<320	<250	<200	<320 H	<280	<370	<190	<270	<300 H	<230	<340 H	<250	<310 H	<250 H
Isopropylbenzene		<41	<65 H	<56	<45	<53	5.5 J H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	18 J	<60 H	<46	7.4 J H	3.5 J	4.7 J H	<50 H
Methyl tert-butyl ether		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
Methylene Chloride		<25	25 J H B	<35	<28	<33	<40 H	0	<31		<30	34	<39	<40 H	<28	28	<44 H	<39	68 B	<25	32 J H B	<35	<47	<23	74 B	<37 H	34	28 J H B	<32	<38 H	<31 H
m-Xylene & p-Xylene		<41	<65 H	<56	<45	<53	18 J H	0	<49		<47	<54	<63	<65 H	<45	4.6 J	<71 H	12 J	<49	<40	<64 H	<56	<75	<37	240	<60 H	<46	8.2 J H	24 J	4.6 J H	<50 H
o-Xylene		5.5 J	<65 H	<56	<45	<53	10 J H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	9.1 J B	<49	<40	<64 H	<56	<75	<37	86	<60 H	<46	7.3 J H	11 J	6.5 J H	<50 H
Styrene		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41 F1	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	7.1 J H	<51	3.9 J H	<50 H
t-Butylbenzene		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	11 J H	<51	6.2 J H	<50 H
Tetrachloroethene	500	<20	<33 H	<28	<22	<27	<32 H	0	<25		<24	<27	<31	<32 H	<23	<21	<35 H	37 B	<25	<20	<32 H	<28	<37	<19	<27	<30 H	<23	9.3 J H	<25	<31 H	<25 H
Toluene		14 J	<65 H	<56	<45	<53	39 J H B	0	<49		<47	<54	<63	<65 H	<45	38 J	4.8 J H	14 J B	<49	<40	<64 H	<56	7.3 J	<37	60	<60 H	4.2 J	8.3 J H	33 J	5.4 J H	4.2 J H
trans-1,2-Dichloroethene		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	8.0 J H	<50 H
trans-1,3-Dichloropropene		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	<67 H	<51	<61 H	<50 H
trans-1,4-Dichloro-2-butene		<200	<330 H	<280	<220	<270	<320 H	0	<250		<240	<270	<310	<320 H	<230	<210	<350 H	<320	<250	<200	<320 H	<280	<370	<190	<270	<300 H	<230	<340 H	<250	<310 H	<250 H
Trichloroethene	2100	<24	<39 H	<33	<27	<32	<39 H	0	<30		<28	<32	<38	<39 H	<27	<25	<43 H	<38	<30	<24	<38 H	<34	<45	<22	<33	<36 H	<27	<40 H	<30	<37 H	<30 H
Trichlorofluoromethane		<41	<65 H	<56	<45	<53	<64 H	0	<49		<47	<54	<63	<65 H	<45	<41	<71 H	<63	<49	<40	<64 H	<56	<75	<37	<54	<60 H	<46	10 J H	<51	<61 H	<50 H
Vinyl acetate		<200	<330 H	<280	<220	<270	<320 H	0	<250		<240	<270	<310	<320 H	<230	<210	<350 H	<320	<250	<200	<320 H	<280	<370	<190	<270	<300 H	<230	<340 H	<250	<310 H	<250 H
Vinyl chloride		<16 *	<26 H	<22 *	<18 *	<21 F1	<26 H	0	<20 *		<19 *	<22	<25	<26 H	<18	<16 F1	<28 H	<25	<20	<16 *	<25 H	<22	<30	<15	<22	<24 H	<18	<27 H	<20	<24 H	<20 H
PAHs																															
(EPA 8270D) ug/Kg																															
2-Methylnaphthalene	200	<11	<2.5	<2.7	<12	<2.7	16	<2.7	0.91 J	16 J	<2.6	<13	3.4	<26	<12	1.1 J	1.5 J	<2.6	<2.3	<23	<2.6	<2.8	2.3 J	<2.2	77	<2.6	<12	<2.7	<2.5	<2.5	<2.3
Acenaphthene	300	<11	<2.5	<2.7	<12	<2.7	6.1	<2.7	<2.5	45	<2.6	<13	<2.5	<26	<12	<2.4	<2.7	<2.6	<2.3 F1	<23	<2.6	<2.8	0.80 J	<2.2	2.2 J	<2.6	<12	<2.7	<2.5	<2.5	<2.3
Acenaphthylene	200	<11	<2.5	<2.7	<12	<2.7	23	<2.7	<2.5	31	<2.6	<13	<2.5	<26	<12	<2.4	<2.7	<2.6	<2.3	<23	<2.6	<2.8	2.6	<2.2	3.7	<2.6	4.0 J	<2.7	<2.5	<2.5	<2.3
Anthracene	845	<11	<2.5	<2.7	<12	<2.7	73	<2.7	1.4 J	85	<2.6	<13	0.84 J	<26	4.0 J	<2.4	0.81 J	<2.6	<2.3	<23	<2.6	<2.8	4.5	<2.2	1.3 J	<2.6	3.0 J	<2.7	<2.5	<2.5	<2.3
Benzo[a]anthracene		14	0.77 J	<2.7	12	<2.7	260	<2.7	16	180	1.2 J	<13	5.6	13 J	26	0.66 J	4.4	1.5 J	<2.3	21 J	0.87 J	<2.8	22	<2.2	7.0	<2.6	26	<2.7	<2.5	0.82 J	<2.3
Benzo[a]pyrene	1450	17	<3.8	<4.1	17 J	<4.1	380	<4.0	29	260	<3.9	<20	5.9	<39	31	<3.5	3.9 J	1.3 J	<3.4	36	<3.9	<4.2	22	<3.3	10	<3.9	45	<4.0	<3.8	0.63 J	<3.4
Benzo[b]fluoranthene		30	<2.5	<2.7	24	<2.7	500	<2.7	42	360	<2.6	<13	9.1	<26	53	<2.4	6.2	2.0 J	<2.3	46	<2.6	<2.8	43	<2.2	22	<2.6	55	<2.7	<2.5	0.68 J	<2.3
Benzo[g,h,i]perylene	300	12 J	<3.2 F1 F2	<3.4 F1	9.4 J	<3.4	140	<3.3	28	150	<3.3	<17	3.1 J	<33	29 *	<2.9 *	2.3 J	<3.3	<2.8 F1	22 J	1.0 J	<3.5	12	<2.7	4.7	<3.2	39 *	<3.3	<3.2 *	<3.1	<2.9
Benzo[k]fluoranthene	13000	12 J	<3.2 F1	<3.4 F1	14 J	<3.4	200	<3.3	18	150	<3.3	<17	3.7	<33	17	<2.9	2.2 J	0.97 J	<2.8	20 J	<3.2	<3.5	12	<2.7	6.2	<3.2	23	<3.3	<3.2	<3.1	<2.9
Bis(2-ethylhexyl) phthalate	330	47 J B	23 J B	22 J B	32 J B	47 J B	56 J B	52 J B	15 J B	110 J B	20 J B	<400	57 J B	100 J B	53 J B	19 J B	220 B	49 J B	40 J B	76 J B	18 J B	12 J B	47 J B	35 J B	45 J B	45 J B	73 J B	18 J B	20 J B	43 J B	28 J B
Butyl benzyl phthalate		<110	18 J B	<27	<120	17 J B	30 B	9.3 J B	6.4 J	<280	8.9 J	<130	17 J B	<260	30 J B	8.9 J B	33 B	23 J B	19 J B	<230	17 J B	<28	28 B	13 J B	12 J B	8.2 J B	<120	18 J B	16 J B	12 J B	8.6 J B
Chrysene	1290	19	<3.2	<3.4	18	<3.4	240	<3.3	22	200	2.0 J	<17	13	<33	34	<2.9	4.9	1.0 J	<2.8 F1	32	<3.2	<3.5	29	<2.7	8.6	<3.2	42	<3.3	<3.2	0.72 J	<2.9
Dibenz(a,h)anthracene	1300	<23	<5.1 F1 F2	<5.4	<24	<5.5	27 J	<5.3	5.1	29 J	<5.2	<27	<5.1	<52	5.6 J *	<4.7 *	<5.3	<5.2	<4.5 F1	<46	<5.1	<5.6	1.6 J	<4.4	1.1 J	<5.2	7.9 J *	<5.3	<5.1 *	<4.9	<4.6
Diethyl phthalate	600	50 J B	20 J B	12 J B	50 J B	21 J B	15 J B	15 J B	12 J B	130 J B	13 J B	48 J B	20 J B	120 J B	39 J B	8.1 J B	18 J B	18 J B	15 J F1 B	71 J B	19 J B	10 J B	20 J B	16 J B	17 J B	16 J B	43 J B	20 J B	18 J B	20 J B	17 J B
Dimethyl phthalate	600	<57	<13	<14	<60	<14	<13	<13	<13	<140	<13	<67	<13	<130	<61	0.74 J	<13	<13	<11 F1	<120	<13	<14	<12	<11	<13	<13	<60	<13	<13	<12	<11
Di-n-butyl phthalate	60	<280	11 J	11 J B	<300	<69	15 J	7.5 J	12 J B	<700	11 J B	<340	7.7 J	<650	34 J	7.7 J	23 J	12 J	11 J	<580	12 J	14 J B	14 J	7.2 J	7.7 J	7.3 J	<300	12 J	93	14 J B	9.4 J B
Di-n-octyl phthalate		<280	3.9 J F2	<68	160 J	26 J	30 J	27 J	110	<700	<65	<340	6.2 J	<650	<300	<59	2.8 J	6.7 J	14 J F1	<580	6.2 J	2.5 J	8.0 J	2.7 J	<65	5.7 J	<300	2.7 J	3.9 J	15 J	86 F1
Fluoranthene	2230	23	0.67 J	<2.7	26	<2.7	480	<2.7	22	500	1.7 J	<13	8.9	<26	51	0.69 J	7.1	0.81 J	<2.3	64	0.64 J	<2.8	62	<2.2	10	<2.6	60	<2.7	<2.5	0.99 J	<2.3
Fluorene	536	<11	<2.5	<2.7	<12	<2.7	20	<2.7	<2.5	36	<2.6	<13	0.85 J	<26	<12	<2.4	<2.7	<2.6	<2.3	<23	<2.6	<2.8	2.1 J	<2.2	1.4 J	<2.6	<12	<2.7	<2.5	<2.5	<2.3
Indeno[1,2,3-cd]pyrene	100	12 J	<5.1 F1 F2	<5.4 F1	11 J	<5.5	150	<5.3	28	140	<5.2	<27	<5.1	<52	25 *	<4.7 *	2.5 J	<5.2	<4.5 F1	18 J	<5.1	<5.6	11	<4.4	5.8	<5.2	34 *	<5.3	<5.1 *	<4.9	<4.6
Naphthalene	561	4.4 J	<2.5	<2.7	5.9 J	<2.7	43	<2.7	1.6 J	33	<2.6	<13	1.8 J	<26	3.3 J	1.5 J	2.3 J	<2.6	<2.3	<23	<2.6	<2.8	4.8	<2.2	230	<2.6	3.8 J	<2.7	<2.5	<2.5	<2.3
Phenanthrene	1170	9.4 J	<2.5	<2.7	11 J	<2.7	270	<2.7	6.1	370	1.4 J	<13	5.4	<26	24	0.62 J	3.2	<2.6	<2.3 F1	31	0.74 J	<2.8	36	<2.2	3.9	<2.6	25	<2.7	<2.5	0.78 J	<2.3
Pyrene	1520	30	<2.5	<2.7	26	<2.7	430	<2.7	22	480	2.2 J	<13	8.3	<26	51	<2.4	7.0	1.0 J	<2.3	71	0.67 J	<2.8	57	<2.2	15	<2.6	63	<2.7	<2.5	1.1 J	<2.3
(9045C) SU																															
pH		8.18	7.53	7.08	7.18	7.47	6.80	8.01	6.57		7.47	7.55	6.33	6.92	7.37	8.08	7.11	7.28	7.17	6.99	7.48	7.80	7.1	7.47	6.58	7.10	7.07	3.60	5.02	5.72	6.68
TOC (9060_PSEP) mg/Kg																															
Total Organic Carbon		300 J	1000 J	360 J	7100	2000 J	52000	220 J	3100		1300 J	500 J	1700 J	660 J	6200	9900	480 J	280 J	<2000	6400	360 J	260 J	8400	250 J	11000	110 J	5200	380 J	740 J	740	100 J
TPH (NWTPH) mg/Kg																															
#2 Diesel (C10-C24)		<28	5.4 J	<33	22 J	7.8 J B	66 B	12 J B	6.6		48	<31	15 J B	4.7 J	12 J Z	20 J	<33	8.1 J B	5.9 J B	6.9 J	<31	<33	9 J B	8.3 J B	12 J B	10 J B	20 J	<33	36	4.4 J	<28
Motor Oil (>C24-C36)		<56	<63	<66	99	<63	280	14 J	<59		150	<63	78	14 J	24 J Z	120	<67	12 J	<54	<54	<63	<66	20 J	<55	17 J	12 J	57 J	<67	150	<61	<55
o-Terphenyl		16	22	19	18	16	16	16	16		16	18	14	21	17	18	23	17	15	15	20	19	16	15	17	16	19	22	17	20	19
Gasoline		3.1 J B	<6.5 H	1.3 J B	1.9 J B	<5.3	4.2 J		0.92		0.77 J B	<7.0 H	<6.3	<6.5 H	0.99 J B	3.0 J B	1.2 J H	<5.8	<4.5	1.1 J B	<6.4 H	0.95 J B	<7.5	<3.7	2.4 J	<5.5	1.6 J B	2.6 J H	3.6 J B	<6.2 H	<5.1 H

TABLE 1
SOIL ANALYSIS
Source Control Evaluation

Analyte	SLV	BG-1			BG-2		BG-3		MW-1				MW-2		MW-3			MW-4		MW-5			MW-6		MW-8		MW-9		MW-10		
		BG-1-3	BG-1-7-A	BG-1-23	BG-2-3	BG-2-24	BG-3-4	BG-3-22.8	MW-1-2	MW-1-9	MW-1-12	MW-1-22-A	MW-2-2	MW-2-8-A	MW-3-1.5	MW-3-4.5	MW-3-21-A	MW-4-4	MW-4-24	MW-5-2.5	MW-5-17-A	MW-5-22	MW-6-3.5	MW-6-24.2	MW-8-4	MW-8-24	MW-9-2	MW-9-19-A	MW-10-1.5	MW-10-3.5-A	MW-10-23-A

Table 1 Notes

Analyte not detected and RL is greater than SLV

Analyte concentration is greater than the SLV

*	LCS or LCSD is outside acceptance limits
B	Compound was found in the blank and sample
F1	MS and/or MSD Recovery is outside acceptance limits
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specific holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
X	Surogate is outside acceptance limits

TABLE 2 - GROUNDWATER ANALYSES

Source Control Evaluation Report

Analyte	SLV*		5/20/2016 MW-1	10/13/2016 MW-1	5/20/2016 MW-2	10/13/2016 MW-2	5/20/2016 MW-3	10/13/2016 MW-3	5/20/2016 MW-3-D	10/13/2016 MW-3-D	5/20/2016 MW-7	10/13/2016 MW-7
Total Recoverable Metals (EPA 6020/6020A/7470A) ug/L												
Aluminum			<100	279	<100	42.8 J	<100	<25.0	<100	<25.0	<100	26.0 J
Antimony			0.43	<0.500	0.28 J	<0.500	0.081 J	<0.500	0.084 J	<0.500	0.31 J	<0.500
Arsenic	0.02	1	1.3	1.31	1.2	1.57	1.3	1.31	1.2	1.04	1.6	1.92
Barium			42	45.7	29	23.4	39	32.9	38	33.8	29	23.6
Cadmium	0.091	2	0.039 J	<0.0400	<0.028	<0.0400	0.091 J	0.0556 J	0.088 J	0.0667 J	<0.028	<0.0400
Chromium	100	1	0.33 J	0.589 J	0.34 J	<0.400	0.41	0.844 J	0.36 J	0.511 J	0.42	0.678 J
Copper	1300	1	<0.60	0.878 J	<0.60	<0.500	<0.60	51.2	<0.60	<0.500	<0.60	<0.500
Lead	0.5	2	0.050 J	0.156 J	<0.034	<0.100	0.046 J	<0.100	<0.034	<0.100	0.042 J	<0.100
Magnesium			15000	14700	12000	11100	17000	15000	17000	15300	9500 J	7580
Manganese	430	1	520	341	210	82.9	260	131	230	137	230	180
Nickel	730	5	1.8 J	1.83	1.5 J	0.978 J	2.5 J	1.79	2.2 J	1.80	1.0 J	4.89
Silver	100	4	<0.030	<0.100	<0.030	<0.100	<0.030	<0.100	<0.030	<0.100	<0.030	<0.100
Zinc	36.5	2	2.5 J	2.63 J	3.3 J	<2.00	3.8 J	2.10 J	3.7 J	<2.00	3.4 J	<2.00
Mercury	2	4	<0.041	<0.0400	<0.041	<0.0400	<0.041	<0.0400	<0.041	<0.0400	<0.041	<0.0400
VOCs (EPA 8260C) ug/L												
1,1,1-Trichloroethane	200	4	<0.025	<0.250	0.20	<0.250	0.20	<0.250	0.20	<0.250	0.17 J	<0.250
1,1,2,2-Tetrachloroethane			<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250
1,1,2-Trichloroethane	5	4	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250
1,1-Dichloroethane	7	1	0.065 J	<0.250	0.30	<0.250	0.37	<0.250	0.41	<0.250	0.22	<0.250
1,2,3-Trichloropropane			<0.050	<0.500	<0.050	<0.500	<0.050	<0.500	<0.050	<0.500	<0.050	<0.500
1,2-Dibromoethane			<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250
1,2-Dichloroethane	5	4	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250
1,2-Dichloropropane	5	4	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250
2-Butanone			<2.5	<5.00	<2.5	<5.00	<2.5	<5.00	<2.5	<5.00	<2.5	<5.00
2-Chloroethyl vinyl ether			<0.13	<5.00	<0.13	<5.00	<0.13	<5.00	<0.13	<5.00	<0.13	<5.00
2-Hexanone			<0.38	<5.00	<0.38	<5.00	<0.38	<5.00	<0.38	<5.00	<0.38	<5.00
4-Methyl-2-pentanone			<0.50	<5.00	<0.50	<5.00	<0.50	<5.00	<0.50	<5.00	<0.50	<5.00
Acetone			<0.40	<10.0	<0.40	<10.0	<0.40	<10.0	<0.40	<10.0	<0.40	<10.0
Acrolein			<2.5	<5.00	<2.5	<5.00	<2.5	<5.00	<2.5	<5.00	<2.5	<5.00
Acrylonitrile			<0.75	<1.00	<0.75	<1.00	<0.75	<1.00	<0.75	<1.00	<0.75	<1.00
Benzene	0.4	1	0.036 J	<0.100	0.039 J	<0.100	<0.025	<0.100	<0.025	<0.100	0.030 J	<0.100
Bromochloromethane			<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500
Bromodichloromethane			<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500
Bromoform			<0.080	<0.500	<0.080	<0.500	<0.080	<0.500	0.10 J,B	<0.500	<0.080	<0.500
Bromomethane	8.7	8	<0.16	<5.00	<0.16	<5.00	<0.16	<5.00	<0.16	<5.00	<0.16	<5.00
Carbon disulfide			<0.025	<5.00	0.045 J	<5.00	<0.025	<5.00	<0.025	<5.00	0.065 J	<5.00
Carbon tetrachloride			<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500
Chlorobenzene	74	1	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250
Chlorodibromomethane			<0.025	<5.00	<0.025	<5.00	<0.025	<5.00	<0.025	<5.00	<0.025	<5.00
Chloroethane			<0.075	<5.00	<0.075	<5.00	<0.075	<5.00	<0.075	<5.00	<0.075	<5.00

TABLE 2 - GROUNDWATER ANALYSES

Source Control Evaluation Report

Analyte	SLV*		5/20/2016 MW-1	10/13/2016 MW-1	5/20/2016 MW-2	10/13/2016 MW-2	5/20/2016 MW-3	10/13/2016 MW-3	5/20/2016 MW-3-D	10/13/2016 MW-3-D	5/20/2016 MW-7	10/13/2016 MW-7
Chloroform			0.19 J	<0.500	0.60	<0.500	0.54	<0.500	0.50	<0.500	2.6	<0.500
Chloromethane			<0.030	<2.50	0.17	<2.50	<0.050	<2.50	<0.050	<2.50	<0.050	<2.50
cis-1,2-Dichloroethene	9.9	1	<0.025	<0.250	0.079	<0.250	<0.025	<0.250	0.12 J	<0.250	0.056 J	<0.250
cis-1,3-Dichloropropene			<0.090	<0.500	<0.090	<0.500	<0.090	<0.500	<0.090	<0.500	<0.090	<0.500
Dibromomethane			<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500
Dichlorodifluoromethane			<0.050	<0.500	<0.050	<0.500	<0.050	<0.500	<0.050	<0.500	<0.050	<0.500
Ethylbenzene	7.3	4	<0.030	<0.250	0.048 J	<0.250	<0.030	<0.250	<0.030	<0.250	0.049 J	<0.250
Iodomethane			<0.070	<10.0	<0.070	<10.0	<0.070	<10.0	<0.070	<10.0	<0.070	<10.0
Isopropylbenzene			<0.060	<0.500	<0.060	<0.500	<0.060	<0.500	<0.060	<0.500	<0.060	<0.500
Methyl tert-butyl ether			<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500
Methylene Chloride			<0.11	<1.50	<0.11	<1.50	<0.11	<1.50	<0.11	<1.50	<0.11	<1.50
m-Xylene & p-Xylene	13	2	0.12 J	<0.500	0.15	<0.500	0.051	<0.500	0.059 J	<0.500	0.16 J	<0.500
o-Xylene	13	2	<0.060	0.260 J	0.073	0.260 J	<0.060	<0.250	<0.060	0.250 J	0.064 J	0.250 J
Styrene	100	4	<0.10	<0.500	<0.10	<0.500	<0.10	<0.500	<0.10	<0.500	<0.10	<0.500
t-Butylbenzene			<0.10	<0.500	<0.10	<0.500	<0.10	<0.500	<0.10	<0.500	<0.10	<0.500
Tetrachloroethene (PCE)	0.2	1	0.23 J	0.530	0.57	0.600	0.87	1.19	0.98	1.13	2.9	0.850
Toluene	9.8	2	0.33	<0.500	0.92	<0.500	0.41	0.510 J	0.43	0.540 J	0.38	0.530 J
trans-1,2-Dichloroethene			<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250	<0.025	<0.250
trans-1,3-Dichloropropene			<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500	<0.025	<0.500
Trichloroethene (TCE)	0.6	1	0.29	0.310 J	1.8	<0.250	2.8	0.560	2.7	0.500	1.4	<0.250
Trichlorofluoromethane			<0.025	<1.00	<0.025	<1.00	<0.025	<1.00	<0.025	<1.00	<0.025	<1.00
Vinyl chloride	0.02	1	<0.013	<0.250	<0.013	<0.250	<0.013	<0.250	<0.013	<0.250	<0.013	<0.250
PAHs (EPA 8270D/ 8270D SIM) ug/L												
2-Methylnaphthalene	2.1	2	<0.0064		<0.0060		<0.0062		<0.0060		<0.0063	
Bis(2-ethylhexyl) phthalate	0.2	3	7.1	<0.190	<1.1	<0.190	2.6 J	<0.190	<1.1	<0.190	1.3 J	<0.190
Butyl benzyl phthalate			0.22 J	<0.190	0.26 J	<0.190	0.32 J	<0.190	0.32 J	<0.190	0.20 J	<0.190
Diethyl phthalate			<0.095	<0.190	<0.095	<0.190	<0.095	<0.190	<0.095	<0.190	<0.095	<0.190
Dimethyl phthalate			<0.095	<0.190	<0.095	<0.190	<0.095	<0.190	<0.095	<0.190	<0.095	<0.190
Di-n-butyl phthalate			<0.12	<0.190	<0.12	<0.190	<0.12	<0.190	<0.12	<0.190	<0.12	<0.190
Di-n-octyl phthalate			<0.17	<0.190	<0.17	<0.190	<0.17	<0.190	<0.17	<0.190	<0.17	<0.190
cPAHs (EPA 8270D SIM) ug/L												
Benzo[a]pyrene	0.01	2	<0.0064	<0.0143	<0.0060	<0.0143	<0.0062	<0.0143	<0.0060	<0.0143	<0.0063	<0.0143
Dibenz(a,h)anthracene	0.3	2	<0.0032	<0.00952	<0.0030	<0.00952	<0.0031	<0.00952	<0.0030	<0.00952	<0.0032	<0.00952
Benzo[a]anthracene	0.03	2	<0.0064	<0.00952	<0.0060	<0.00952	<0.0062	<0.00952	<0.0060	<0.00952	<0.0063	<0.00952
Benzo[b]fluoranthene	0.7	2	<0.0064	<0.0143	<0.0060	<0.0143	<0.0062	<0.0143	<0.0060	<0.0143	<0.0063	<0.0143
Benzo[k]fluoranthene	0.6	2	<0.0064	<0.0143	<0.0060	<0.0143	<0.0062	<0.0143	<0.0060	<0.0143	<0.0063	<0.0143
Indeno[1,2,3-cd]pyrene	0.3	2	<0.0064	<0.00952	<0.0060	<0.00952	<0.0062	<0.00952	<0.0060	<0.00952	<0.0063	<0.00952
Chrysene	2	2	<0.0064	<0.00952	<0.0060	<0.00952	<0.0062	<0.00952	<0.0060	<0.00952	<0.0063	<0.00952
Benzo[g,h,i]perylene	0.4	2	<0.0064	<0.00952	<0.0060	<0.00952	<0.0062	<0.00952	<0.0060	<0.00952	<0.0063	<0.00952
Anthracene	0.7	2	0.012 J	0.0110 J	0.0065 J	<0.00952	0.013 J	<0.00952	0.016 J	<0.00952	0.0067 J	0.0107 J
Naphthalene	12	2	0.0090 J	0.0199 J	<0.0030	0.0192 J	0.0084 J	0.0279 J	0.0092 J	0.0199 J	0.018 J	<0.0190

TABLE 2 - GROUNDWATER ANALYSES

Source Control Evaluation Report

Analyte	SLV*		5/20/2016 MW-1	10/13/2016 MW-1	5/20/2016 MW-2	10/13/2016 MW-2	5/20/2016 MW-3	10/13/2016 MW-3	5/20/2016 MW-3-D	10/13/2016 MW-3-D	5/20/2016 MW-7	10/13/2016 MW-7
Acenaphthene	23	2	<0.0064	<0.00952	<0.0060	<0.00952	<0.0062	<0.00952	<0.0060	<0.00952	<0.0063	<0.00952
Acenaphthylene			<0.0064	<0.00952	<0.0030	<0.00952	<0.0031	<0.00952	<0.0030	<0.00952	<0.0032	<0.00952
Fluoranthene	6.2	2	<0.0064	<0.00952	<0.0060	<0.00952	<0.0062	<0.00952	<0.0060	<0.00952	<0.0063	<0.00952
Fluorene	3.9	2	<0.0064	<0.00952	<0.0060	<0.00952	<0.0062	<0.00952	<0.0060	<0.00952	<0.0063	<0.00952
Phenanthrene	6.3	2	<0.0064	<0.00952	<0.0060	<0.00952	<0.0062	<0.00952	0.0061 J	<0.00952	<0.0063	<0.00952
Pyrene	10	2	<0.0064	<0.00952	<0.0060	<0.00952	<0.0062	<0.00952	<0.0060	<0.00952	<0.0063	<0.00952
TOC (9060) mg/L												
Total Organic Carbon			1.1	2.25	1.0	1.58	1.2	2.34	1.2	2.57	1.2	2.14
TPH (NWTPH-Dx) ug/L												
#2 Diesel (C10-C24)	2.6	2	73 J,B	<38.1	65 J,B	<38.1	43 J,B	<38.1	35 J,B	<38.1	100 J,B	<38.1
Motor Oil (>C24-C36)			58 J	<76.2	52 J	<76.2	33 J	<76.2	<29	<76.2	41 J	<76.2
Gasoline			<27	<50	<27	<50	<27	<50	<27	<50	<27	<50

NOTES:

Analyte not detected and RL is greater than PRG and/or MCL

Analyte concentration is greater than PRG or MCL (the smallest value was used for comparison)

SLV Means Screening Level Value

PRG Means Preliminary Remedial Goals

RAO Means Remedial Action Objectives

MCL Means Maximum Contaminant Level

1 Portland Harbor PRG for RAO 4 - Human health - Migration of contaminated groundwater (Table 2.2-1a, Table 2.2-1b Portland Harbor EPA FS PRGs June 2016)

2 Portland Harbor PRG for RAO 8 - Ecological - Direct contact/ingestion migration of contaminated groundwater (Table 2.2-1c, Table 2.2-1d Portland Harbor EPA FS PRGs June 2016)

3 Portland Harbor PRG for RAO 3 - Human health - Protected water uses (Table 2.2-1a, Table 2.2-1b Portland Harbor EPA FS PRGs June 2016)

4 Portland Harbor MCL for groundwater - Human health - Drinking water MCL (Table 3.1 Portland Harbor EPA Joint Source Control Strategy)

* The most conservative RPG value was chosen between RAO 4 & RAO 8. If no screening value for the COCP was identified, the most conservative value between RAO 3 & RAO 7 was chosen. In the case neither of these RAOs contained screening values for the COCP, the MCL from the JSCS drinking water standard was used.

** Total Toxicity Equivalent Concentration - Toxic equivalency factors were adopted from the EPA Advisory Note: Classification of polycyclic aromatic hydrocarbons (Revised Nov. 2012). For cPAHs with values below the limit of reporting (LOR), the LOR was used to calculate TTEC per methodology in the EPA Advisory Note

B Compound was found in the blank and sample

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

TABLE 3 - CATCH BASIN SEDIMENT ANALYSES

Source Control Evaluation Report

	APEX Lab	Soil/Sediment Screening Levels		10-13-16	10-13-16	10-13-16
Analyte	Detection Limit	Portland Harbor PRG	JSCS Table 3-1	CB-1	CB-2	CB-3
Total Metals (EPA 6020A/7471A) mg/kg						
Aluminum	25			5830	8350	6260
Antimony	0.25			2.30	5.09	12.3
Arsenic	0.25	3		6.03	6.77	8.50
Barium	0.5			221	331	130
Cadmium	0.25	0.5		0.611	6.45	1.58
Chromium	0.5			34.5	66.5	55.6
Copper	0.5	359		121	340	150
Lead	0.25	196		49.5	245	2610
Magnesium	25			2910	2740	2080
Nickel	0.5			20.7	35.9	35.8
Silver	0.25			ND	ND	0.381
Zinc	1	459		336	998	457
Mercury	0.02	0.09		0.0302	0.813	0.268
Pesticides (EPA 8081B) ug/Kg						
2,4'-DDD	0.5	114		ND	ND	ND
2,4'-DDE	0.5	226		ND	ND	ND
2,4'-DDT	0.5	246		ND	ND	ND
4,4'-DDD	0.5	114		ND	ND	ND
4,4'-DDE	0.5	226		ND	ND	ND
4,4'-DDT	0.5	246		ND	ND	ND
Aldrin	0.5	2		ND	ND	ND
alpha-BHC	0.5			ND	ND	ND
beta-BHC	0.5			ND	ND	ND
cis-Nonachlor	0.5			ND	ND	ND
delta-BHC	0.5			ND	ND	ND
Dieldrin	0.5	0.07		ND	ND	ND
Endosulfan I	0.5			ND	ND	ND
Endosulfan II	0.5			ND	ND	ND
Endosulfan sulfate	0.5			ND	ND	ND
Endrin	0.5			ND	ND	ND
Endrin aldehyde	1.0			ND	ND	ND
Endrin ketone	0.5			ND	ND	ND
gamma-BHC (Lindane)	0.5	5		ND	ND	ND
Heptachlor	0.5			ND	ND	ND
Heptachlor epoxide	0.5			ND	ND	ND
Methoxychlor	1.5			ND	ND	ND
Toxaphene	15			ND	ND	ND
trans-Nonachlor	0.5			ND	ND	ND
DCB Decachlorobiphenyl				ND	ND	ND
Tetrachloro-m-xylene				ND	ND	ND
alpha-Chlordane	0.5	1.4		ND	ND	ND
gamma-Chlordane	0.5	1.4		ND	ND	ND
oxy-Chlordane	0.5	1.4		ND	ND	ND
Chlordane (technical)	15	1.4		ND	ND	ND

TABLE 3 - CATCH BASIN SEDIMENT ANALYSES

Source Control Evaluation Report

	APEX Lab	Soil/Sediment Screening Levels		10-13-16	10-13-16	10-13-16
Analyte	Detection Limit	Portland Harbor PRG	JSCS Table 3-1	CB-1	CB-2	CB-3
PCBs (8082A) ug/Kg						
PCB-1016	5	9		ND	ND	ND
PCB-1221	5	9		ND	ND	ND
PCB-1232	5	9		ND	ND	ND
PCB-1242	5	9		ND	ND	ND
PCB-1248	5	9		ND	ND	ND
PCB-1254	5	9		35.8	ND	ND
PCB-1260	5	9		ND	1070	141
PCB-1262	5	9		ND	ND	ND
PCB-1268	5	9		ND	ND	ND
PCBs, Total			0.39	35.8	1070	141
VOCs (EPA 8260C) ug/Kg						
1,1,1,2-Tetrachloroethane	12.5			ND	ND	ND
1,1,1-Trichloroethane	12.5			ND	ND	ND
1,1,2,2-Tetrachloroethane	12.5			ND	ND	ND
1,1,2-Trichloroethane	12.5			ND	ND	ND
1,1-Dichloroethane	12.5			ND	ND	ND
1,2,3-Trichloropropane	25			ND	ND	ND
1,2-Dibromoethane	25			ND	ND	ND
1,2-Dichloroethane	12.5			ND	ND	ND
1,2-Dichloropropane	12.5			ND	ND	ND
2-Butanone	250			ND	ND	ND
2-Chloroethyl vinyl ether	n/a			ND	ND	ND
2-Hexanone	250			ND	ND	ND
4-Methyl-2-pentanone	250			ND	ND	ND
Acetone	500			ND	ND	ND
Acrolein	n/a			ND	ND	ND
Acrylonitrile	50			ND	ND	ND
Benzene	5			ND	ND	ND
Bromochloromethane	25			ND	ND	ND
Bromodichloromethane	50			ND	ND	ND
Bromoform	50			ND	ND	ND
Bromomethane	500			ND	ND	ND
Carbon disulfide	250			ND	ND	ND
Carbon tetrachloride	25			ND	ND	ND
Chlorobenzene	12.5			ND	ND	ND
Chlorodibromomethane	50			ND	ND	ND
Chloroethane	250			ND	ND	ND
Chloroform	25			ND	ND	ND
Chloromethane	125			ND	ND	ND
cis-1,2-Dichloroethene	12.5			ND	ND	ND
cis-1,3-Dichloropropene	25			ND	ND	ND
Dibromomethane	25			ND	ND	ND
Dichlorodifluoromethane	50			ND	ND	ND
Ethylbenzene	12.5			ND	ND	ND
Iodomethane	n/a			ND	ND	ND
Isopropylbenzene	25			ND	ND	ND

TABLE 3 - CATCH BASIN SEDIMENT ANALYSES

Source Control Evaluation Report

	APEX Lab	Soil/Sediment Screening Levels		10-13-16	10-13-16	10-13-16
Analyte	Detection Limit	Portland Harbor PRG	JSCS Table 3-1	CB-1	CB-2	CB-3
Methyl tert-butyl ether	25			ND	ND	ND
Methylene Chloride	125			ND	ND	ND
m-Xylene & p-Xylene	25			ND	ND	ND
o-Xylene	12.5			ND	ND	ND
Styrene	25			ND	ND	ND
t-Butylbenzene	25			ND	ND	ND
Tetrachloroethene	12.5			ND	ND	ND
Toluene	25			3090	652	ND
trans-1,2-Dichloroethene	12.5			ND	ND	ND
trans-1,3-Dichloropropene	25			ND	ND	ND
trans-1,4-Dichloro-2-butene	n/a			ND	ND	ND
Trichloroethene	12.5			ND	ND	ND
Trichlorofluoromethane	50			ND	ND	ND
Vinyl acetate	n/a			ND	ND	ND
Vinyl chloride	12.5			ND	ND	ND
PAHs (EPA 8270D) ug/Kg						
2-Methylnaphthalene	2.67			ND	ND	ND
Bis(2-ethylhexyl) phthalate	20	23,000		ND	7030	ND
Butyl benzyl phthalate	13.3	23,000		ND	ND	ND
Diethyl phthalate	13.3	23,000		ND	ND	ND
Dimethyl phthalate	13.3	23,000		ND	ND	ND
Di-n-butyl phthalate	13.3	23,000		ND	ND	ND
Di-n-octyl phthalate	13.3	23,000		ND	ND	ND
cPAHs (EPA 8270D) ug/Kg						
Benzo[a]pyrene	2	12		ND	ND	847
Dibenz[a,h]anthracene	1.33	120		ND	ND	145
Benzo[a]anthracene	1.33	120		76.4	ND	684
Benzo[b]fluoranthene	2	120		ND	ND	1140
Benzo[k]fluoranthene	2	120		ND	ND	410
Indeno[1,2,3-cd]pyrene	1.33	120		ND	ND	536
Chrysene	1.33	1,200		141	ND	888
Benzo[g,h,i]perylene	1.33			ND	ND	424
Anthracene	1.33			ND	ND	99.4
Naphthalene	2.67			ND	ND	ND
Acenaphthene	1.33			ND	ND	ND
Acenaphthylene	1.33			ND	ND	ND
Fluoranthene	1.33		37,000	160	154	1190
Fluorene	1.33			ND	ND	ND
Phenanthrene	1.33			96.1	140	395
Pyrene	1.33		1,900	156	297	1090
TTEC**				ND	ND	ND
(9045C) SU						
pH	n/a			ND	ND	ND
TOC (9060_PSEP) mg/Kg						

TABLE 3 - CATCH BASIN SEDIMENT ANALYSES

Source Control Evaluation Report

	APEX Lab	Soil/Sediment Screening Levels		10-13-16	10-13-16	10-13-16
Analyte	Detection Limit	Portland Harbor PRG	JSCS Table 3-1	CB-1	CB-2	CB-3
Total Organic Carbon	100			2.8	13	4.3
TPH (NWTPH) mg/Kg						
#2 Diesel (C10-C24)	10			ND	ND	ND
Motor Oil (>C24-C36)	20			2220	11700	833
o-Terphenyl	n/a			ND	ND	ND
Gasoline	2.5			17.7	16.0	ND
Dioxin (1 Sample)				NA	NA	NA

APPENDICES

GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: BG-1

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St., Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/30/15, 0845** End Date and Time: **9/30/15, 0950**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **31 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23681/23683** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0			Concrete - Warehouse floor								
1–3			V. dark grayish brown, loose fine SAND w/ little to no fines, micaceous, damp, broken brick fragments ~20% core loss due to bricks blocking shoe (FILL)	SP	BG-1-3		1.3	0900	9.9	4.5	
4–5			Brick w/ grayish brown SILT w/ trace to some clay (FILL)	ML							
5–7			Dk. greenish gray, v.stiff SILT w/ trace to some clay, micaceous, damp, low plasticity (FILL)	CL	BG-1-7A		1.1	0916	14	13	
7–9			Olive brown, v.stiff SILT w/ trace clay and v. fine sand, micaceous, damp (FILL) @ 8.4' 2" thick weathered red brick layer	ML			1.1	0917			
9–13			Dk. grayish brown SILT w/ trace clay, micaceous, damp, low plasticity. With depth, gradual gradations from silt to v. fine - fine sand layers averaging 0.5 - 1 ft. thick 50% core loss from 7 - 25'		BG-1-13A		1.3	0934			
13–18				ML - CL	BG-1-17.5A		1.1	0943			
18–20			@ 19.3' becomes moist								

This geologic log and related information depict subsurface conditions only at a specific location and time. Geologic conditions at other locations may differ from conditions encountered and described in this log. The passage of time may result in a change in geologic and hydrogeologic conditions and engineering properties at this location.

GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: BG-1

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St., Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/30/15, 0845** End Date and Time: **9/30/15, 0950**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **31 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23681/23683** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
23			2" thick lense of saturated fine SAND, micaceous		BG-1-23		1.1	0948	11	7.3	
25			Dk. grayish brown, sandy GRAVEL, gravel up to >2" size, trace or less fines. Damp to moist from 25-~30' depth. 50-60% core loss due to gravel blocking drill shoe	GW			1.0				
35			Dk. brown, loose to med dense, fine to med SAND, micaceous, saturated, trace of fines. Thin lenses of fine-med sand and silt below 37'	SW							

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GeoPro Environmental Services LLC
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Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: BG-2

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St., Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/30/15, 1245** End Date and Time: **9/30/15, 1518**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **31 ft. bgs** Total Depth: **35.2 ft. bgs**
Laboratory: **TestAmerica** COC: **23681/23687-8** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0–3			Concrete - Warehouse floor V. dark greenish gray, v.stiff SILT w/ some clay, scattered black organic (?) frags1/4" in size (FILL)		BG-2-3		1.4	1257	68	8.2	
3–10			FILL - combination of silt and brick 60% core loss								
10–14			Dk. grayish brown v.stiff SILT w/ some clay, damp to moist, mottled to 14' depth, micaceous	ML			1.1	1320			
14–25			Dk. grayish brown, stiff to v.stiff SILT w/ trace to some v.fine SAND, micaceous, damp to moist. Gradational zones of increasing clay - some clay, to 25' depth	ML	BG-2-14A BG-2-19A		1.1 1.0	1322 1326			
							1.0	1321			

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GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: BG-2

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St., Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/30/15, 1245** End Date and Time: **9/30/15, 1518**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **31 ft. bgs** Total Depth: **35.2 ft. bgs**
Laboratory: **TestAmerica** COC: **23681/23687-8** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
22			Layer of dk. grayish brown, loose-med dense v.fine SAND w/ trace silt, micaceous, saturated	SW			1.3	1346			
24					BG-2-24		1.0	1347	20	13	
25			Dk. grayish brown, fine to coarse sandy GRAVEL, saturated below 34' depth 78% core loss 25-35' due to large gravel blocking drill shoe. 31' depth to water measured after drilling. Pizo only went down to 32' after caving	GW							
35			Refusal				0.9				

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GeoPro Environmental Services LLC
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Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: BG-3

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2740 NW 22nd Place, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **10/1/2015, 1420** End Date and Time: **10/2/2015, 1220**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **31 ft. bgs** Total Depth: **49.5 ft. bgs**
Laboratory: **TestAmerica** COC: **23689/23691** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0			Concrete - Warehouse floor								
1			Mixture of pea gravel below concrete grading to clayey silt w/ gravel (FILL)								
2											
3											
4					BG-3-4			1450	310	11	
5											
6			V. dark grayish brown, stiff to v.stiff SILT w/ trace v.fine sand and clay, damp, wet at 9-9.5', micaceous	ML							
7											
8							1.2	1510			
9			Layer of v.fine SAND, v. dark greenish gray	SP	BG-3-9A		1.0	1510			
10											
11											
12							1.0	1510			
13			Layer of v.fine SAND, v. dark greenish gray	SP							
14				SP	BG-3-14A		1.0	1515			
15			Layer of v.fine SAND, v. dark greenish gray								
16											
17					BG-3-17A		1.0	1600			
18											
19											
20											

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GeoPro Environmental Services LLC
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Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: BG-3

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2740 NW 22nd Place, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **10/1/2015, 1420** End Date and Time: **10/2/2015, 1220**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **31 ft. bgs** Total Depth: **49.5 ft. bgs**
Laboratory: **TestAmerica** COC: **23689/23691** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
20											
21		▽	Layer of v.fine SAND, little fines, saturated	SP			1.0				
22											
23					BG-3-22.8		0.9	1545	15	7.2	
24											
25			V. dark gray, v.dense GRAVEL w/ some fine-coarse sand, trace silt, subrounded to rounded gravel, at least 2" size								
26											
27											
28											
29											
30											
31		▽									
32											
33											
34											
35											
36											
37				GW							
38											
39											
40											

This geologic log and related information depict subsurface conditions only at a specific location and time. Geologic conditions at other locations may differ from conditions encountered and described in this log. The passage of time may result in a change in geologic and hydrogeologic conditions and engineering properties at this location.

GeoPro Environmental Services LLC
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Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: BG-3

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2740 NW 22nd Place, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **10/1/2015, 1420** End Date and Time: **10/2/2015, 1220**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **31 ft. bgs** Total Depth: **49.5 ft. bgs**
Laboratory: **TestAmerica** COC: **23689/23691** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
40–49			Date: 10-2-15 V. dark gray, v.dense GRAVEL w/ some fine-coarse sand, mod silty, subrounded to angular gravel up to 2" diameter, saturated.								
49–50			Refusal								
50–60											

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GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-1

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St., Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **Geoprobe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/29/15, 1530** End Date and Time: **9/29/15, 1640**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **36.5 ft. bgs** Total Depth: **40.0 ft. bgs**
Laboratory: **TestAmerica** COC: **23681/23683** Logged By: **MK**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0			Concrete - Warehouse floor								
2			Brown v. stiff SILT w/ trace clay and fine gravel (FILL), damp. 50% core loss 0.5-10' due to rocks, brick frag.	ML	MW-1-2		1.0	1537	34	10	
4			Brown red dense SAND w/ little to no fines, micaceous, damp	SP							
9			Red brick fragments w/ black organic debris mixed		MW-1-9		1.3	1548	330	3.5	
10			Greenish black v. stiff SILT, micaceous, damp to moist.								
12					MW-1-12		1.3	1558	17	12	
14							1.2				
15			@ 15-18' silt becomes silt w/ trace clay								
16							1.1				
17				ML							
18			@18-18.5' becomes wet		MW-1-18A		1.0	1614			
20											

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GeoPro Environmental Services LLC

PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-1

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St., Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **Geoprobe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/29/15, 1530** End Date and Time: **9/29/15, 1640**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **36.5 ft. bgs** Total Depth: **40.0 ft. bgs**
Laboratory: **TestAmerica** COC: **23681/23683** Logged By: **MK**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
20–22			@20-25' gradation between SILT w/ trace clay to SILT w/ some clay, low plasticity, moist to wet		MW-1-22A		1.0	1617	15	8.9	
23–24			Layer of grayish brown loose v. fine SAND w/ little to no fines, miaceous, saturated	SP			1.0				
25–27			Very dk brown, v. dense GRAVEL w/ some sand and silt, gravel >2" size, moist. 50% core loss due to broken gravel from 25-35' depth	GW			1.0	1626			
28–32				GW			1.0	1628			
33–35				GW							
36			Grayish brown SILT w/ trace clay, micaceous, moist to wet	ML							
37–38			Brown dense sandy fine GRAVEL, saturated, gravel is lithic including quartize	GW			1.1				
39–40			Dark brown loose, med. dense, fine to med SAND w/ little to no fines, micaceous. Sand 5% mica, 50% qtz-fels, 45% lithic	SP	MW-1-39A		1.0	1636			

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GeoPro Environmental Services LLC
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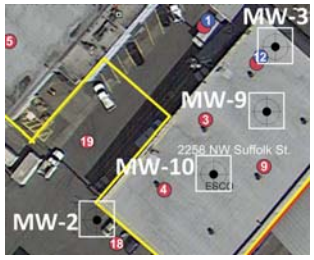
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-2

Location Sketch



Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk Street, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **Geoprobe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **10/1/15, 0850** End Date and Time: **10/1/15, 0945**
Surface Conditions: **asphalt** Surface Elevation:
Depth Groundwater (not perched): **34.6 ft. bgs** Total Depth: **40.0 ft. bgs**
Laboratory: **TestAmerica** COC: **23687/23688** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0			Weathered asphalt								
2			Dk. yellowish brown, stiff SILT w/ some v. fine sand, damp (FILL)		MW-2-2		1.0	0905	11	9	
4			Dk. grayish brown, stiff - v.stiff SILT w/ trace clay and v. fine sand, damp to moist, low plasticity				1.2				
6							0.9	0918			
8			@ 8' grades to SILT w/ trace clay, some v. fine sand, low plasticity	CL	MW-2-8A		0.9	0925	13	8.1	
12					MW-2-12A		1.0	0942			
13			V. dark grayish brown grading to dark grayish brown, med dense fine SAND w/ little to no fines, damp								
14							1.1	0939			
17				SP			1.0				
18			@ 19' zone of thin bedding (horizontal) w/ fine and medium sand.								
19			@ 19.5 ' becomes v. dark grayish brown		MW-2-19A		0.9	0950			
20											

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GeoPro Environmental Services LLC
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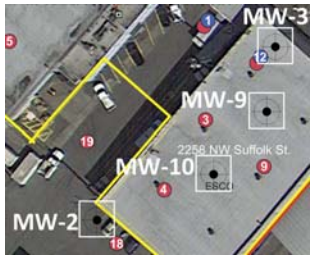
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-2

Location Sketch



Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk Street, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **Geoprobe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **10/1/15, 0850** End Date and Time: **10/1/15, 0945**
Surface Conditions: **asphalt** Surface Elevation:
Depth Groundwater (not perched): **34.6 ft. bgs** Total Depth: **40.0 ft. bgs**
Laboratory: **TestAmerica** COC: **23687/23688** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
22			Dk. grayish brown clayey SILT, damp to 22.5', then saturated, micaceous @ 22.5' grades to SILT w/ some v. fine SAND	CL-ML			0.9	1018			
25			V. dark gray, v. dense GRAVEL w/ some fine - coarse sand, few fines, gravel is subrounded to rounded, up to 2" diameter, and potentially larger. Apparent silt cementation in upper 5' of gravel		MW-2-24.5		1.1	0956			
27							1.1	1014			
32				GW							

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GeoPro Environmental Services LLC
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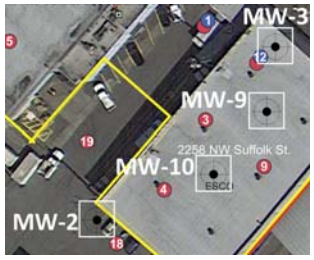
GEOLOGIC LOG

DRILL HOLE NO.: MW-3

Location Sketch



Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk Street, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **Geoprobe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/29/15, 1315** End Date and Time: **9/29/15, 1430**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **30 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23682/23684** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0			Concrete - Warehouse floor								
1											
2			Very dk grayish brown, stiff SILT w/ trace clay, damp		MW-3-1.5		1.3	1358	110	9.5	
3			@ 2.5' and 3.5' Lenses of fine rounded gravel. (FILL)	ML							
4											
5			Brick fragments, burn zone @ 4.2', black organic fragments scattered below burn zone (FILL)		MW-3-4.5		1.2	1353	2700	8.5	
6											
7			Grayish brown, v. stiff SILT w/ trace to some clay, mottled dark yellowish brown, moist, low plasticity	CL	MW-3-7A		1.4	1412			
8											
9							1.1				
10			Brown, stiff SILT, trace clay, micaceous, moist								
11							1.2				
12											
13					MW-3-13A		1.1	1423			
14			@14.8' becomes wet								
15				CL							
16			Layer of rounded fine GRAVEL, occasional black organic fragments				1.2				
17											
18											
19			@ 19' increases in clay to some clay		MW-3-19A		1.1	1430			
20											

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GeoPro Environmental Services LLC
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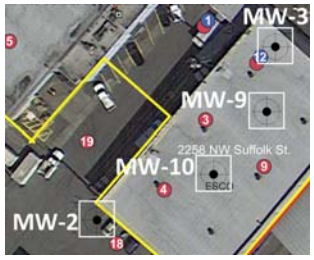
GEOLOGIC LOG

DRILL HOLE NO.: MW-3

Location Sketch



Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk Street, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **Geoprobe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/29/15, 1315** End Date and Time: **9/29/15, 1430**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **30 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23682/23684** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
20											
21			Dk grayish brown, stiff SILT w/ trace to some clay, trace rounded gravel to 1" size, scattered black organic frags, moist to wet, low plasticity.	ML	MW-3-21A		1.2	1442	12	7.7	
22											
23			Dk grayish brown, med dense, vr. fine SAND, micaceous, saturated	SP			1.0	1440			
24			@ 23.7-24' 4" thick zone of stiff silt w trace clay								
25			@ 24.5' 1" thick lense fine sand								
26			Dk grayish brown sandy GRAVEL w trace silt, gravel up to >2" (stuck in shoe and liner for ~40% core loss), moist								
27											
28							1.2	1457			
29											
30			@ 30' beomes wet								
31											
32				GW							
33											
34											
35											
36											
37											
38											
39			Dk. grayish brown fine-med SAND w/ trace fine gravel, micaceous, saturated	SP							
40											

This geologic log and related information depict subsurface conditions only at a specific location and time. Geologic conditions at other locations may differ from conditions encountered and described in this log. The passage of time may result in a change in geologic and hydrogeologic conditions and engineering properties at this location.

GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-4

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2740 NW 22nd Place, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **10/1/15, 1000** End Date and Time: **10/1/15, 1125**
Surface Conditions: **asphalt** Surface Elevation:
Depth Groundwater (not perched): **35.2 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23688-89/23691** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0–8.5			Weathered asphalt Mixture of asphalt, glass, rocks, apparent burn debris, < 20% soil; percentage of soil in mix increases below 7 ft. depth (FILL).		MW-4-4		1.0	1025	10	6.5	
8.5–14			Dk. grayish brown, v.stiff SILT w/ trace clay, micaceous, damp to moist, mottled to about 11-12 ft. depth	ML	MW-4-9A		0.9	1050			
							1.0	1050			
14–20			Dk. grayish brown, med dense, v.fine SAND, w/ trace SILT, micaceous, damp to moist @ 17-19' Thin bedding, becomes v.fine SAND with little to no fines	SP	MW-4-14A		1.0	1055			
					MW-4-18A		1.0	1120			

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GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-4

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2740 NW 22nd Place, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **10/1/15, 1000** End Date and Time: **10/1/15, 1125**
Surface Conditions: **asphalt** Surface Elevation:
Depth Groundwater (not perched): **35.2 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23688-89/23691** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
20–40			V. dark grayish brown, dense, fine-med SAND, little to no fines, thin bedded, damp to moist	SP							
24			Layer of dark grayish brown, loose, v.fine SAND, saturated		MW-4-24		1.0	1110	3.8	4.6	
25–40			V. dark grayish brown, fine-coarse sandy GRAVEL w/ trace silt, gravel is subrounded to rounded and up to, and likely greater than, 2" size	GW							

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GeoPro Environmental Services LLC
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GEOLOGIC LOG

DRILL HOLE NO.: MW-5

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St., Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/30/15, 1030** End Date and Time: **9/30/15, 1130**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **30.9 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23681/23683** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0			Concrete - Warehouse floor								
1											
2			Dk. grayish brown grading to v. dark greenish black SILT w/ some clay, damp, scattered brick and glass fragments, black organic or burn fragments @3.4' (FILL) 20% core loss								
3					MW-5-2.5		1.1	1042	100	10	
4											
5			Dk. grayish brown SILT w/ some clay, trace fine sand, scattered brick and black oranic or burn fragments, occasional coarse sand grains, damp (FILL)								
6											
7							1.3	1100			
8			Black burn debris, light gray sand grading through red brick and wood pieces, damp (FILL) 30% core loss due to wedging of wood in core shoe.								
9											
10											
11			Dk. grayish brown, v.stiff SILT w/ trace to some clay, grading in zones to trace clay and v.fine sand, micaceous, damp to moist, mottled to 12.3' depth	ML							
12					MW-5-12A		1.3	1112			
13											
14							1.2	1111			
15											
16											
17			@ 17' becomes moist to wet		MW-5-17A		1.1	1123	12	9.9	
18			Layer of dk. grayish brown, v. fine SAND, saturated	SP							
19							1.1	1123			
20											

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GeoPro Environmental Services LLC
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Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-5

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St., Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/30/15, 1030** End Date and Time: **9/30/15, 1130**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **30.9 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23681/23683** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
22			Layer of v. dark grayish brown, loose, v.fine SAND w/ little to no fines, micaceous, saturated, potential "blebs" or bubbles when immersed in water but no sheen.	SP	MW-5-22A		1.2	1136	12	7.5	
24							1.2	1137			
25			Dk. grayish brown, v. dense fine-coarse sandy GRAVEL, little to no fines, gravel includes basalt, quartzite, >2" size ~60-70% core loss due to slough & heaving @ 22-24' depth and larger gravel blocking drill shoe.	GW							
35			Alternating fine-coarse sand and sandy gravel layers	SP/ GW							

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GEOLOGIC LOG

DRILL HOLE NO.: MW-6

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St., Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/30/15, 1430** End Date and Time: **9/30/15, 1550**
Surface Conditions: **asphalt** Surface Elevation:
Depth Groundwater (not perched): **34.9 ft. bgs** Total Depth: **45 ft. bgs**
Laboratory: **TestAmerica** COC: **23687/23688** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0–3.5			Gravel, silt, black burn debris, 1" thick layer at 3.5' depth (FILL) Dk. gray gravelly SILT (FILL)								
3.5–14			Dk. yellowish brown SILT w/ trace clay, damp to moist, mottled to 7' depth, micaceous, grades between silt w/ trace clay to v.fine sandy silt	ML - CL	MW-6-3.5			1446	16	12	
							1.1				
					MW-6-9A		0.9	1506			
					MW-6-12.5A		1.0	1515			
14–20			Dk. grayish brown, loose, med fine SAND w/ little to no fines, micaceous, damp	SP			1.0	1544			
					MW-6-17A		1.1	1549			
19		▽	@ 19.5' becomes wet to saturated				1.1	1545			

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GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-6

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St., Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/30/15, 1430** End Date and Time: **9/30/15, 1550**
Surface Conditions: **asphalt** Surface Elevation:
Depth Groundwater (not perched): **34.9 ft. bgs** Total Depth: **45 ft. bgs**
Laboratory: **TestAmerica** COC: **23687/23688** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
22			V. dark brown, loose, med-dense fine to med SAND	SP			0.9	1546			
24			Layer of dk. grayish brown SILT, micaceous, moist to wet		MW-6-24.2		0.9	1546	3	3.8	
27			Dk. grayish brown, dense to v.dense sandy, fine - coarse GRAVEL, moist to wet, becomes saturated below ~35'	GW							
35		▽									
39			TD 45 ft. bgs								

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GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-8

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2740 NW 22nd Place, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **10/1/15, 1300** End Date and Time: **10/1/15, 1400**
Surface Conditions: **asphalt** Surface Elevation:
Depth Groundwater (not perched): **33 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23689/23691** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0			Weathered asphalt								
1											
2			Mixutre of asphalt fragments, rocks, some soil Brown mottled yellowish red SILT w/ some clay, damp (FILL)								
3			@ 2.5' wood fragments, then pale brown granular debris (ceramic?), then burn (?) debris.								
4					MW-8-4		1.2	1315	19	8	
5			Brown stiff to v.stiff SILT w/ trace clay, micaceous, damp to moist, grading at depth to SILT w/ trace to some v. fine sand								
6											
7							0.9	1330			
8											
9			@ 9.5 - 10' silt w/ v. fine sand		MW-8-9A		1.0	1333			
10											
11											
12			@ 12.5 - 13.5' silt w/ v. fine sand				1.0	1330			
13			@ 13.1 - 13.5' moist to wet								
14				ML - CL	MW-8-14A		1.0	1335			
15											
16											
17							1.0	1402			
18			@ 18.5 - 19' becomes wet to saturated								
19					MW-8-19A		1.0	1405			
20											

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GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-8

Location Sketch

Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2740 NW 22nd Place, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc, Don**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **10/1/15, 1300** End Date and Time: **10/1/15, 1400**
Surface Conditions: **asphalt** Surface Elevation:
Depth Groundwater (not perched): **33 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23689/23691** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
22			@ 22-23.5' zone of SILT w/ trace clay @ 23.9-24.2' zone of SILT w/ trace clay				1.0	1406			
24					MW-8-24		1.0	1355	7.2	5.1	
25			Brown, loose - med dense fine SAND w/ little to no fines, micaceous, saturated (clear water pools)	SP							
28			V. dark grayish brown fine to coarse sandy GRAVEL w/ trace silt, gravel is subrounded to rounded, > 2" size, damp to moist				1.0	1413			
33				GW							

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GeoPro Environmental Services LLC
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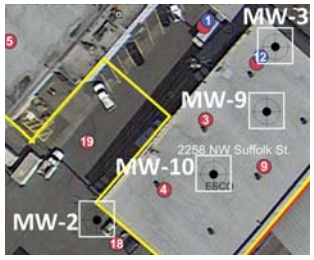
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-9

Location Sketch



Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk Street, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **Geoprobe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/29/15, 0910** End Date and Time: **9/29/15, 1130**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **34 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23682/23684** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0			Concrete - Warehouse floor								
2			Dk brown v. stiff SILT w/ trace fine SAND, w/ scattered weathered grannules. NO BURN. Damp (FILL)	ML	MW-9-2		1.0	0912	58	10	
3				GM							
4			Dk brown, loose, v. silty, fine GRAVEL w/ trace clay, damp (FILL)	ML			1.0	0920			
6			Dk. brown, v. stiff SILT w/ trace fine sand, trace to some clay, scattered wxd granules, scattered black frags (burn or organics), damp (FILL?)				1.2	0929			
8			Brown, v. stiff SILT w/ trace clay, scattered weathered granules (or mottling) to ~ 6' depth. Gradational zones w/ trace v. fine sand		MW-9-8A		1.2	0930			
9				ML							
12					MW-9-12A		1.3	0943			
13			Light olive brown to light brown gray, v. fine SAND, stiff to v. stiff, damp, no fines. Grayer in center of layer.	SP							
14							1.3	0941			
16			Brown, v. stiff SILT w/ trace clay, damp to moist, low plasticity	CL							
17			@ 16 - 16.5' fine sandy GRAVEL, loose @ 16.5 - 17.3' v. fine SAND lense				1.2	0952			
19					MW-9-19A		1.2	1017	11	8.8	
20			Light olive brown, stiff, v. fine SAND to SILT,	SM							

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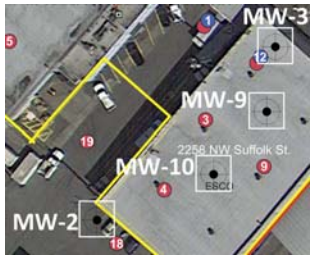
GEOLOGIC LOG

DRILL HOLE NO.: MW-9

Location Sketch



Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk Street, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **Geoprobe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/29/15, 0910** End Date and Time: **9/29/15, 1130**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **34 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23682/23684** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
20			saturated	CL							
21			Light olive brown, stiff - v. stiff SILT w/ trace clay, moist to wet, low plasticity		MW-9-21A		1.1	1017			
22				SM							
23			Light olive brown, loose-med. dense, v. fine SAND, saturated, slow-rapid delatency	CL			1.1	1016			
24				SM							
25			Light olive brown, stiff - v. stiff SILT, similar to 20-21.75'								
26			Light olive brown loose-med. dense, v. fine SAND, saturated, slow-rapid delatency	CL							
27							1.0	1036			
28			Dk grayish brown, stiff clayey SILT, moist, low-med plasticity	GW	MW-9-27.8A						
29							1.1				
30			V. dark brown, fine-coarse sandy GRAVEL, damp to moist, gravel to 2" size, lithic, sand + gravel (no mica)	SP							
31											
32			Dk. grayish brown, fine SAND w/ little to no fines, micaceous, moist.				1.1				
33			@ 1137, hole caved to 30.8 ft. bgs	GW	MW-9-33		1.1	1029			
34			V. dark brown, v. dense, fine - coarse sandy GRAVEL, gravel to 2" size, moist, lithic sand and gravel	SP							
35											
36			V. dark grayish brown, dense - med. dense, fine SAND w/ little to no fines, micaceous, saturated								
37											
38											
39			V. dark grayish brown, dense, fine-coarse sandy GRAVEL, gravel to 1" size, saturated	GW	MW-9-40A		1.1	1045			
40											

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GeoPro Environmental Services LLC
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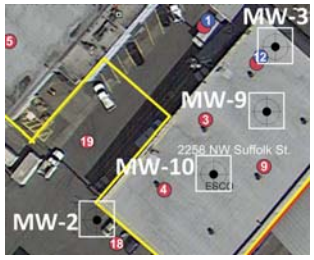
GEOLOGIC LOG

DRILL HOLE NO.: MW-10

Location Sketch



Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk Street, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/28/2015, 1015** End Date and Time: **9/28/2015, 1330**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **below 30 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23679/23680** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
0			Concrete - Warehouse floor								
1			Black med stiff - stiff clayey silt, low plasticity, damp. Burn 0.8-1.5 ft. (FILL)	CL	MW-10-1.5		1.4	1150	3200	18	
2											
3			Grayish brown, v. stiff SILT w/ trace clay, w/ 10-15% dark yellow brown weathered granules ~1/8" size.				1.3	1205			
4					MW-10-3.5A			1218	22	16	
5			Decreasing percent of weathered basalt granules below 6 ft.	ML			1.3	1206			
6							1.2	1207			
7							1.3				
8					MW-10-8A			1230			
9											
10			Olive brown stiff SILT w/ trace fine to v. fine sand, micaceous, damp (gradual gradations from slightly clayey silt to v. fine sandy silt, w/ moist zones).				1.2				
11											
12			@ 12-12.5' zones of dk gray to black organic stained soil, basalt gravel to 3/4" size subrounded				1.6	1250			
13					MW-10-13A			1255			
14							1.2	1250			
15				ML							
16							1.2				
17					MW-10-17A			1322			
18							1.1				
19											
20											

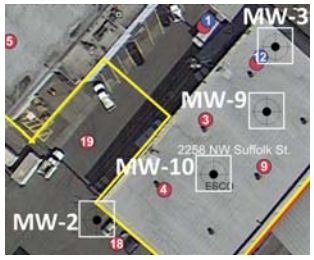
This geologic log and related information depict subsurface conditions only at a specific location and time. Geologic conditions at other locations may differ from conditions encountered and described in this log. The passage of time may result in a change in geologic and hydrogeologic conditions and engineering properties at this location.

GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

GEOLOGIC LOG

DRILL HOLE NO.: MW-10

Location Sketch



Project No.: **141017** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk Street, Portland, OR**
Client: **Henry P. Oseran & Associates LLC**

Drilling Co.: **Cascade Drilling, L.P., Portland, Oregon** Driller: **Marc**
Drilling Method and Rig Model: **GeoProbe 7720 DT**
Sampling Method(s): **GeoProbe liner, EPA 5035A, Low Flow**

Start Date and Time: **9/28/2015, 1015** End Date and Time: **9/28/2015, 1330**
Surface Conditions: **cement floor** Surface Elevation:
Depth Groundwater (not perched): **below 30 ft. bgs** Total Depth: **40 ft. bgs**
Laboratory: **TestAmerica** COC: **23679/23680** Logged By: **MKent**

DEPTH (FT)	GRAPHIC	SWL	DESCRIPTION	USCS	SAMPLE SOIL	SAMPLE WATER	PID (ppm)	Time	Pb (mg/kg)	As (mg/kg)	WELL Description
22							1.3				
23			Layer: Thin lenses fine-med SAND, 2" thick, basaltic composition, moist.		MW-10-23A			1330	4.4	5	
24			@ 23.5' thick 2" lense of v. fine sand, low-rapid dilatency, saturated				1.1				
25			@ 24.2' from 24'-25' v. fine sand w/ few fines, saturated, low to rapid dilatency								
26					MW-10-26A		1.2	1348			
27			Dense fine to med sandy GRAVEL, micaceous, damp to moist to ~28', moist to wet below 30' depth, gravel subrounded to rounded basalt to 1" size (possibly larger diameter, resulting in ~25% core loss in gravel because of blocked drill shoe).								
29							1.1				
30				GW							
37			Layer: 6" fine to coarse SAND lense								
39			Loose, med dense black fine-coarse SAND, sand composition 10-15% of felsic, 85-90% lithic, moist, few to no fines.	SW			1.2				

This geologic log and related information depict subsurface conditions only at a specific location and time. Geologic conditions at other locations may differ from conditions encountered and described in this log. The passage of time may result in a change in geologic and hydrogeologic conditions and engineering properties at this location.

MW-10 FILL in which lead at 3,200 mg/kg was detected.

TYPICAL FILL: MW-1, 5-10 feet bgs.

TYPICAL SILT: MW-2, 12 feet bgs.

TYPICAL PERCHED SATURATED SAND LENSE IN SILT: MW-10, 24 feet bgs.

TYPICAL GRAVEL: MW-6, 35-45 feet bgs.

TYPICAL SAND, INTERBEDDED SATURATED SAND, and GRAVEL: MW-4, 15-30 feet bgs.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-53710-1
Client Project/Site: Oseran Properties

For:
GeoPro Geologic Services
PO BOX 26
Battle Ground, Washington 98604

Attn: Richard Kent

Authorized for release by:
12/1/2015 2:35:18 PM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 580-53710-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-53710-1

Comments
No additional comments.

Receipt
The samples were received on 9/28/2015 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 11.8º C.

Receipt Exceptions

The following samples was activated (MW10-3.5A, MW10-23A) /canceled (MW-10-26) by the client on 10-8-15: MW-10-26 (580-53710-2), MW-10-3.5-A (580-53710-3) and MW-10-23-A (580-53710-7).

GC/MS VOA
Method(s) 8260C: The method blank for batch 580-202343 contained Methylene Chloride above the reporting limit (RL). Methylene chloride is a common lab contaminant ; therefore, re-extraction was not performed. The SOP allows for detections of common lab contaminants below five times the reporting limit.

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-202343 was outside criteria for the following analyte(s): 2-Butanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-202343 recovered above the upper control limit for 1,1,1,2-Tetrachloroethane, Isopropylbenzene and t-Butylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-10-1.5 (580-53710-1), MW-10-26 (580-53710-2), (CCV 580-202343/2) and (580-53747-C-3-A).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-203054 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The method blank for preparation batch 580-203073 and analytical batch 580-204000 contained Methylene chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The following samples was prepared outside of the 48 hour preparation holding time for bulk soil samples due to laboratory error: MW-10-3.5-A (580-53710-3), MW-10-23-A (580-53710-7), (580-53710-A-7-G MS) and (580-53710-A-7-H MSD).

Method(s) NWTPH-Gx: The method blank for preparation batch 580-202577 and analytical batch 580-202593 contained Gasoline above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) NWTPH-Gx: The following samples were prepared outside of preparation holding time due to laboratory error: MW-10-3.5-A (580-53710-3) and MW-10-23-A (580-53710-7). Samples have been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The method blank for preparation batch 580-202235 and analytical batch 580-203464 contained Diethyl phthalate, Di-n-butyl phthalate and Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: The LCS and LCSD in low level sediment (2mL FV) prep batch 202235 were spiked at the standard (10mL FV) level.

Job ID: 580-53710-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

Therefore, LCS and LCSD extracts were diluted 5x prior to analysis.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 580-202235 recovered outside control limits for Benzo(g,h,i)perylene, Dibenz(a,h)anthracene and Indeno(1,2,3-cd)pyrene. All targets passed recovery criteria in both LCS and LCSD.

Method(s) 8270D: The method blank for preparation batch 580-202235 and 580-202944 and analytical batch 580-203587 contained Di-n-butyl phthalate, Diethyl phthalate, Bis(2-ethylhexyl) phthalate and Butyl benzyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: The following samples was diluted prior to analysis due to the nature of the sample matrix: (580-53747-B-4-A), (580-53747-B-4-B MS) and (580-53747-B-4-C MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8081B: The method blank for analytical 205885 contained Heptachlor above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8081B: The laboratory control sample (LCS) for batch 202233 recovered outside control limits for the following analytes: Chlordane (technical). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8081B: The method blank for analytical batch 203709 contained Heptachlor epoxide, 4,4'-DDD, Endrin aldehyde and Endrin ketone above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8081B: The continuing calibration verification (CCV) associated with batch 203709 recovered outside acceptance criteria, low biased, for Chlordane (technical). Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8081B: The surrogate recovey of DCB Decachlorobiphenyl for analytical batch 205885 and 203709 was outside control limtis on the primary column for all associated QC. Surrogate recovery on the secondary column was within control limtis. Samples have been qualified and reported.

Method(s) 8081B: The following samples was analyzed outside of analytical holding time due to laboratory error: MW-10-1.5 (580-53710-1).

Method(s) NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-10-1.5 (580-53710-1) and (580-53710-A-1-B DU).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: MW-10-1.5
Date Collected: 09/28/15 11:50
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-1
Matrix: Solid
Percent Solids: 78.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		51	4.8	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
1,1,1-Trichloroethane	ND		51	7.1	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
1,1,2,2-Tetrachloroethane	ND		13	2.9	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
1,1,2-Trichloroethane	ND		15	3.5	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
1,1-Dichloroethane	ND		51	5.3	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
1,2,3-Trichloropropane	ND		51	15	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
1,2-Dibromoethane	ND		20	4.3	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
1,2-Dichloroethane	ND		20	4.2	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
1,2-Dichloropropane	ND		15	3.0	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
2-Butanone	ND		510	66	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
2-Chloroethyl vinyl ether	ND		250	7.8	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
2-Hexanone	ND		250	45	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
4-Methyl-2-pentanone	ND		250	37	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Acetone	**580**	**J**	1000	220	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Acrolein	ND		1500	120	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Acrylonitrile	ND		510	120	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Benzene	**7.8**	**J**	20	4.4	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Bromochloromethane	ND		51	5.8	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Bromodichloromethane	ND		51	1.8	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Bromoform	ND		51	8.2	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Bromomethane	ND		180	17	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Carbon disulfide	ND		51	5.6	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Carbon tetrachloride	ND		25	4.8	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Chlorobenzene	ND		51	12	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Chlorodibromomethane	ND		25	3.5	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Chloroethane	ND		510	20	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Chloroform	ND		51	5.3	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Chloromethane	**14**	**J**	130	13	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
cis-1,2-Dichloroethene	ND		51	6.2	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
cis-1,3-Dichloropropene	ND		20	2.3	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Dibromomethane	ND		76	17	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Dichlorodifluoromethane	ND		51	8.2	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Ethylbenzene	**15**	**J**	51	2.5	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Iodomethane	ND		250	8.0	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Isopropylbenzene	**3.5**	**J**	51	3.3	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Methyl tert-butyl ether	ND		51	7.6	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Methylene Chloride	ND		32	15	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
m-Xylene & p-Xylene	**24**	**J**	51	3.8	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
o-Xylene	**11**	**J**	51	3.8	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Styrene	ND		51	3.0	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
t-Butylbenzene	ND		51	3.9	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Tetrachloroethene	ND		25	6.7	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Toluene	**33**	**J**	51	3.3	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
trans-1,2-Dichloroethene	ND		51	4.8	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
trans-1,3-Dichloropropene	ND		51	8.9	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
trans-1,4-Dichloro-2-butene	ND		250	20	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Trichloroethene	ND		30	3.9	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Trichlorofluoromethane	ND		51	7.5	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1
Vinyl acetate	ND		250	58	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1

Client Sample ID: MW-10-1.5
Date Collected: 09/28/15 11:50
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-1
Matrix: Solid
Percent Solids: 78.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		20	9.0	ug/Kg	☼	10/02/15 10:04	10/02/15 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 136*	*10/02/15 10:04*	*10/02/15 17:14*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*10/02/15 10:04*	*10/02/15 17:14*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 132*	*10/02/15 10:04*	*10/02/15 17:14*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*10/02/15 10:04*	*10/02/15 17:14*	*1*
Trifluorotoluene (Surr)	*95*		*65 - 140*	*10/02/15 10:04*	*10/02/15 17:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
2-Methylnaphthalene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Dimethyl phthalate	ND		13	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Acenaphthylene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Acenaphthene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Diethyl phthalate	**18**	**J B**	25	1.9	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Fluorene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Phenanthrene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Anthracene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Di-n-butyl phthalate	**93**		64	6.4	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Fluoranthene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Pyrene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Butyl benzyl phthalate	**16**	**J B**	25	6.4	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Benzo[a]anthracene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Chrysene	ND		3.2	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Bis(2-ethylhexyl) phthalate	**20**	**J B**	76	6.4	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Di-n-octyl phthalate	**3.9**	**J**	64	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Benzo[b]fluoranthene	ND		2.5	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Benzo[k]fluoranthene	ND		3.2	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Benzo[a]pyrene	ND		3.8	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Indeno[1,2,3-cd]pyrene	ND	*	5.1	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Dibenz(a,h)anthracene	ND	*	5.1	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1
Benzo[g,h,i]perylene	ND	*	3.2	0.64	ug/Kg	☼	10/01/15 14:32	10/17/15 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*111*		*42 - 151*	*10/01/15 14:32*	*10/17/15 00:13*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**3.6**	**J B**	5.1	0.63	mg/Kg	☼	10/06/15 13:42	10/06/15 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*	*10/06/15 13:42*	*10/06/15 19:12*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.25	0.037	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
2,4'-DDE	ND	H	0.25	0.037	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
2,4'-DDT	ND	H	0.25	0.037	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
4,4'-DDD	ND	H	0.25	0.018	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1

Client Sample ID: MW-10-1.5
Date Collected: 09/28/15 11:50
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-1
Matrix: Solid
Percent Solids: 78.0

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	0.25	0.018	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
4,4'-DDT	ND	H	0.25	0.019	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Aldrin	ND	H	0.12	0.028	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
alpha-BHC	ND	H	0.12	0.034	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
alpha-Chlordane	ND	H	0.12	0.017	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
beta-BHC	ND	H	0.12	0.040	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Chlordane (technical)	ND	* H	1.2	0.17	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
cis-Nonachlor	ND	H	0.25	0.024	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
delta-BHC	ND	H	0.12	0.018	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Dieldrin	ND	H	0.25	0.015	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Endosulfan I	ND	H	0.12	0.013	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Endosulfan II	ND	H	0.25	0.021	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Endosulfan sulfate	ND	H	0.25	0.023	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Endrin	ND	H	0.25	0.020	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Endrin aldehyde	ND	H	0.25	0.025	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Endrin ketone	ND	H	0.25	0.032	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
gamma-BHC (Lindane)	ND	H	0.12	0.037	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
gamma-Chlordane	ND	H	0.12	0.017	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Heptachlor	ND	H	0.25	0.058	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Heptachlor epoxide	ND	H	0.12	0.00037	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Methoxychlor	ND	H	1.2	0.032	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
oxy-Chlordane	ND	H	0.25	0.037	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
Toxaphene	ND	H	12	2.8	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1
trans-Nonachlor	ND	H	0.25	0.037	ug/Kg	☼	10/01/15 14:54	11/18/15 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*41*	*X*	*60 - 128*	*10/01/15 14:54*	*11/18/15 04:48*	*1*
DCB Decachlorobiphenyl	*52*	*X*	*60 - 128*	*10/01/15 14:54*	*11/18/15 04:48*	*1*
Tetrachloro-m-xylene	*58*		*35 - 129*	*10/01/15 14:54*	*11/18/15 04:48*	*1*
Tetrachloro-m-xylene	*58*		*35 - 129*	*10/01/15 14:54*	*11/18/15 04:48*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.2	0.062	ug/Kg	☼	10/01/15 14:54	10/22/15 17:53	1
PCB-1221	ND		1.4	0.42	ug/Kg	☼	10/01/15 14:54	10/22/15 17:53	1
PCB-1232	ND		1.4	0.27	ug/Kg	☼	10/01/15 14:54	10/22/15 17:53	1
PCB-1242	ND		1.2	0.26	ug/Kg	☼	10/01/15 14:54	10/22/15 17:53	1
PCB-1248	ND		1.4	0.20	ug/Kg	☼	10/01/15 14:54	10/22/15 17:53	1
PCB-1254	ND		1.2	0.11	ug/Kg	☼	10/01/15 14:54	10/22/15 17:53	1
PCB-1260	ND		1.2	0.16	ug/Kg	☼	10/01/15 14:54	10/22/15 17:53	1
PCB-1262	ND		1.2	0.24	ug/Kg	☼	10/01/15 14:54	10/22/15 17:53	1
PCB-1268	ND		1.2	0.26	ug/Kg	☼	10/01/15 14:54	10/22/15 17:53	1
Polychlorinated biphenyls, Total	ND		1.4	0.42	ug/Kg	☼	10/01/15 14:54	10/22/15 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*50 - 140*	*10/01/15 14:54*	*10/22/15 17:53*	*1*
Tetrachloro-m-xylene	*54*		*45 - 135*	*10/01/15 14:54*	*10/22/15 17:53*	*1*

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53710-1

Client Sample ID: MW-10-1.5
Date Collected: 09/28/15 11:50
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-1
Matrix: Solid
Percent Solids: 78.0

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	36		30	4.3	mg/Kg	☼	10/01/15 13:31	10/02/15 19:28	1
Motor Oil (>C24-C36)	150		60	11	mg/Kg	☼	10/01/15 13:31	10/02/15 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*10/01/15 13:31*	*10/02/15 19:28*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		19	19	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Antimony	11		0.13	0.026	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Arsenic	18		0.31	0.11	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Barium	190		0.31	0.049	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Cadmium	0.15		0.13	0.012	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Chromium	21		0.31	0.040	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Copper	22		0.25	0.062	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Lead	3200		0.31	0.030	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Magnesium	3600		63	1.7	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Nickel	16		0.31	0.051	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Silver	0.13		0.13	0.0075	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5
Zinc	120		3.1	0.70	mg/Kg	☼	10/12/15 09:04	10/13/15 06:43	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.025	0.0074	mg/Kg	☼	10/09/15 07:31	10/09/15 10:45	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.02				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	740	J	2000	44	mg/Kg			10/09/15 14:30	1
TOC Result 2	720	J	2000	44	mg/Kg			10/09/15 14:30	1
TOC Result 1	760	J	2000	44	mg/Kg			10/09/15 14:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10	0.10	%			10/02/15 10:39	1
Percent Moisture	22		0.10	0.10	%			10/02/15 10:39	1

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53710-1

Client Sample ID: MW-10-3.5-A
Date Collected: 09/28/15 12:18
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-3
Matrix: Solid
Percent Solids: 78.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	61	9.9	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Chloromethane	ND	H	150	15	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Vinyl chloride	ND	H	24	11	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Bromomethane	ND	H	210	21	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Chloroethane	ND	H	610	24	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Trichlorofluoromethane	ND	H	61	9.0	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Acrolein	ND	H	1800	140	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Iodomethane	ND	H	310	9.6	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Carbon disulfide	ND	H	61	6.7	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Acetone	ND	H	1200	270	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Methyl tert-butyl ether	ND	H	61	9.2	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
trans-1,2-Dichloroethene	**8.0**	**J H**	61	5.8	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Acrylonitrile	ND	H	610	150	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
1,1-Dichloroethane	ND	H	61	6.4	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Vinyl acetate	ND	H	310	71	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
cis-1,2-Dichloroethene	ND	H	61	7.5	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
2-Butanone	ND	H	610	80	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Bromochloromethane	ND	H	61	7.0	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Chloroform	ND	H	61	6.4	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
1,1,1-Trichloroethane	ND	H	61	8.6	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Carbon tetrachloride	ND	H	31	5.8	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Benzene	**5.5**	**J H**	24	5.4	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
1,2-Dichloroethane	ND	H	24	5.1	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Trichloroethene	ND	H	37	4.7	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
1,2-Dichloropropane	ND	H	18	3.7	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Dibromomethane	ND	H	92	20	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Bromodichloromethane	ND	H	61	2.1	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
2-Chloroethyl vinyl ether	ND	H	310	9.5	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
cis-1,3-Dichloropropene	ND	H	24	2.8	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
4-Methyl-2-pentanone	ND	H	310	45	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Toluene	**5.4**	**J H**	61	4.0	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
trans-1,3-Dichloropropene	ND	H	61	11	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
1,1,2-Trichloroethane	ND	H	18	4.3	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Tetrachloroethene	ND	H	31	8.1	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
2-Hexanone	ND	H	310	54	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Chlorodibromomethane	ND	H	31	4.3	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
1,2-Dibromoethane	ND	H	24	5.2	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Chlorobenzene	ND	H	61	15	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
1,1,1,2-Tetrachloroethane	ND	H	61	5.8	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Ethylbenzene	**5.7**	**J H**	61	3.1	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
m-Xylene & p-Xylene	**4.6**	**J H**	61	4.6	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
o-Xylene	**6.5**	**J H**	61	4.6	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Styrene	**3.9**	**J H**	61	3.7	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Bromoform	ND	H	61	9.9	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
Isopropylbenzene	**4.7**	**J H**	61	4.0	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
1,1,2,2-Tetrachloroethane	ND	H	15	3.5	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
1,2,3-Trichloropropane	ND	H	61	18	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
trans-1,4-Dichloro-2-butene	ND	H	310	24	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1
t-Butylbenzene	**6.2**	**J H**	61	4.7	ug/Kg	☼	10/12/15 10:34	10/12/15 14:28	1

Client Sample ID: MW-10-3.5-A

Date Collected: 09/28/15 12:18
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-3

Matrix: Solid
Percent Solids: 78.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*98*		*65 - 140*	*10/12/15 10:34*	*10/12/15 14:28*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*10/12/15 10:34*	*10/12/15 14:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 136*	*10/12/15 10:34*	*10/12/15 14:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*	*10/12/15 10:34*	*10/12/15 14:28*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 132*	*10/12/15 10:34*	*10/12/15 14:28*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	H	38	18	ug/Kg	☼	10/12/15 10:34	10/22/15 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*96*		*65 - 140*	*10/12/15 10:34*	*10/22/15 12:48*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/12/15 10:34*	*10/22/15 12:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 136*	*10/12/15 10:34*	*10/22/15 12:48*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*10/12/15 10:34*	*10/22/15 12:48*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/12/15 10:34*	*10/22/15 12:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
2-Methylnaphthalene	ND		2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Dimethyl phthalate	ND		12	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Acenaphthylene	ND		2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Acenaphthene	ND		2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Diethyl phthalate	**20**	**J B**	25	1.9	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Fluorene	ND		2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Phenanthrene	**0.78**	**J**	2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Anthracene	ND		2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Di-n-butyl phthalate	**14**	**J B**	62	6.2	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Fluoranthene	**0.99**	**J**	2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Pyrene	**1.1**	**J**	2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Butyl benzyl phthalate	**12**	**J B**	25	6.2	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Benzo[a]anthracene	**0.82**	**J**	2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Chrysene	**0.72**	**J**	3.1	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Bis(2-ethylhexyl) phthalate	**43**	**J B**	74	6.2	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Di-n-octyl phthalate	**15**	**J**	62	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Benzo[b]fluoranthene	**0.68**	**J**	2.5	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Benzo[k]fluoranthene	ND		3.1	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Benzo[a]pyrene	**0.63**	**J**	3.7	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Indeno[1,2,3-cd]pyrene	ND		4.9	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Dibenz(a,h)anthracene	ND		4.9	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1
Benzo[g,h,i]perylene	ND		3.1	0.62	ug/Kg	☼	10/09/15 18:44	10/16/15 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*121*		*42 - 151*	*10/09/15 18:44*	*10/16/15 21:40*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND	H	6.2	0.78	mg/Kg	☼	10/12/15 12:37	10/12/15 20:01	1

Client Sample ID: MW-10-3.5-A
Date Collected: 09/28/15 12:18
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-3
Matrix: Solid
Percent Solids: 78.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150	10/12/15 12:37	10/12/15 20:01	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.25	0.038	ug/Kg	☼	10/09/15 14:01	11/18/15 05:23	1
2,4'-DDE	ND		0.25	0.038	ug/Kg	☼	10/09/15 14:01	11/18/15 05:23	1
2,4'-DDT	ND		0.25	0.038	ug/Kg	☼	10/09/15 14:01	11/18/15 05:23	1
4,4'-DDD	**0.026**	**J B**	0.25	0.018	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
4,4'-DDE	**0.023**	**J F1**	0.25	0.018	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
4,4'-DDT	ND		0.25	0.019	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Aldrin	**0.061**	**J F1**	0.13	0.028	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
alpha-BHC	ND		0.13	0.035	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
alpha-Chlordane	ND		0.13	0.017	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
beta-BHC	**0.28**		0.13	0.041	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Chlordane (technical)	ND		1.3	0.18	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
cis-Nonachlor	ND		0.25	0.024	ug/Kg	☼	10/09/15 14:01	11/18/15 05:23	1
delta-BHC	**0.13**		0.13	0.019	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Dieldrin	ND		0.25	0.015	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Endosulfan I	ND	F1	0.13	0.013	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Endosulfan II	ND	F1	0.25	0.021	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Endosulfan sulfate	ND		0.25	0.023	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Endrin	ND		0.25	0.020	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Endrin aldehyde	ND	F1	0.25	0.025	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Endrin ketone	**0.25**	**B**	0.25	0.032	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
gamma-BHC (Lindane)	ND	F1	0.13	0.038	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
gamma-Chlordane	**0.10**	**J**	0.13	0.017	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Heptachlor	ND		0.25	0.058	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Heptachlor epoxide	**0.15**	**B**	0.13	0.00038	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
Methoxychlor	ND		1.3	0.032	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
oxy-Chlordane	ND		0.25	0.038	ug/Kg	☼	10/09/15 14:01	11/18/15 05:23	1
Toxaphene	ND		13	2.9	ug/Kg	☼	10/09/15 14:01	10/19/15 18:18	1
trans-Nonachlor	ND		0.25	0.038	ug/Kg	☼	10/09/15 14:01	11/18/15 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		60 - 128	10/09/15 14:01	10/19/15 18:18	1
DCB Decachlorobiphenyl	59	X	60 - 128	10/09/15 14:01	10/19/15 18:18	1
DCB Decachlorobiphenyl	45	X	60 - 128	10/09/15 14:01	11/18/15 05:23	1
DCB Decachlorobiphenyl	64		60 - 128	10/09/15 14:01	11/18/15 05:23	1
Tetrachloro-m-xylene	54		35 - 129	10/09/15 14:01	10/19/15 18:18	1
Tetrachloro-m-xylene	59		35 - 129	10/09/15 14:01	10/19/15 18:18	1
Tetrachloro-m-xylene	65		35 - 129	10/09/15 14:01	11/18/15 05:23	1
Tetrachloro-m-xylene	63		35 - 129	10/09/15 14:01	11/18/15 05:23	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.063	ug/Kg	☼	10/09/15 14:01	10/18/15 15:30	1
PCB-1221	ND		1.4	0.43	ug/Kg	☼	10/09/15 14:01	10/18/15 15:30	1
PCB-1232	ND		1.4	0.28	ug/Kg	☼	10/09/15 14:01	10/18/15 15:30	1
PCB-1242	ND		1.3	0.26	ug/Kg	☼	10/09/15 14:01	10/18/15 15:30	1
PCB-1248	ND		1.4	0.20	ug/Kg	☼	10/09/15 14:01	10/18/15 15:30	1
PCB-1254	ND		1.3	0.11	ug/Kg	☼	10/09/15 14:01	10/18/15 15:30	1

Client Sample ID: MW-10-3.5-A
Date Collected: 09/28/15 12:18
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-3
Matrix: Solid
Percent Solids: 78.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND	F1 F2	1.3	0.16	ug/Kg	☼	10/09/15 14:01	10/18/15 15:30	1
PCB-1262	ND		1.3	0.24	ug/Kg	☼	10/09/15 14:01	10/18/15 15:30	1
PCB-1268	ND		1.3	0.26	ug/Kg	☼	10/09/15 14:01	10/18/15 15:30	1
Polychlorinated biphenyls, Total	ND		1.4	0.43	ug/Kg	☼	10/09/15 14:01	10/18/15 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*50 - 140*	*10/09/15 14:01*	*10/18/15 15:30*	*1*
Tetrachloro-m-xylene	*55*		*45 - 135*	*10/09/15 14:01*	*10/18/15 15:30*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**4.4**	**J**	31	4.4	mg/Kg	☼	10/11/15 08:58	10/12/15 18:19	1
Motor Oil (>C24-C36)	ND		61	11	mg/Kg	☼	10/11/15 08:58	10/12/15 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*10/11/15 08:58*	*10/12/15 18:19*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**29000**		18	18	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Antimony	**0.84**		0.12	0.025	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Arsenic	**16**		0.29	0.11	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Barium	**210**		0.29	0.046	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Cadmium	**0.17**		0.12	0.011	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Chromium	**24**	**F1**	0.29	0.037	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Copper	**23**		0.23	0.057	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Lead	**22**		0.29	0.028	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Magnesium	**6800**		58	1.5	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Nickel	**21**		0.29	0.047	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Silver	**0.014**	**J**	0.12	0.0070	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5
Zinc	**76**		2.9	0.65	mg/Kg	☼	10/12/15 08:59	10/13/15 02:56	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.024	0.0073	mg/Kg	☼	10/13/15 07:02	10/13/15 11:28	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.72**				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**740**	**J**	2000	44	mg/Kg			10/12/15 14:45	1
TOC Result 2	**730**	**J**	2000	44	mg/Kg			10/12/15 14:45	1
TOC Result 1	**760**	**J**	2000	44	mg/Kg			10/12/15 14:45	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**78**		0.10	0.10	%			10/09/15 17:13	1
Percent Moisture	**22**		0.10	0.10	%			10/09/15 17:13	1

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53710-1

Client Sample ID: MW-10-23-A
Date Collected: 09/28/15 13:30
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-7
Matrix: Solid
Percent Solids: 87.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	50	8.1	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Chloromethane	ND	H	120	13	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Vinyl chloride	ND	H	20	8.9	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Bromomethane	ND	H	170	17	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Chloroethane	ND	H	500	20	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Trichlorofluoromethane	ND	H	50	7.4	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Acrolein	ND	H	1500	110	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Iodomethane	ND	H	250	7.9	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Carbon disulfide	ND	H	50	5.5	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Acetone	ND	H	1000	220	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Methyl tert-butyl ether	ND	H	50	7.5	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
trans-1,2-Dichloroethene	ND	H	50	4.7	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Acrylonitrile	ND	H	500	120	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
1,1-Dichloroethane	ND	H	50	5.2	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Vinyl acetate	ND	H	250	58	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
cis-1,2-Dichloroethene	ND	H	50	6.1	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
2-Butanone	ND	H	500	65	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Bromochloromethane	ND	H	50	5.7	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Chloroform	ND	H	50	5.2	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
1,1,1-Trichloroethane	ND	H	50	7.0	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Carbon tetrachloride	ND	H	25	4.7	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Benzene	ND	H	20	4.4	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
1,2-Dichloroethane	ND	H	20	4.1	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Trichloroethene	ND	H	30	3.9	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
1,2-Dichloropropane	ND	H	15	3.0	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Dibromomethane	ND	H	75	16	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Bromodichloromethane	ND	H	50	1.7	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
2-Chloroethyl vinyl ether	ND	H	250	7.7	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
cis-1,3-Dichloropropene	ND	H	20	2.2	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
4-Methyl-2-pentanone	**37**	**J H**	250	37	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Toluene	**4.2**	**J H**	50	3.2	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
trans-1,3-Dichloropropene	ND	H	50	8.7	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
1,1,2-Trichloroethane	ND	H	15	3.5	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Tetrachloroethene	ND	H	25	6.6	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
2-Hexanone	ND	H	250	44	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Chlorodibromomethane	ND	H	25	3.5	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
1,2-Dibromoethane	ND	H	20	4.2	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Chlorobenzene	ND	H	50	12	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
1,1,1,2-Tetrachloroethane	ND	H	50	4.7	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Ethylbenzene	**2.6**	**J H**	50	2.5	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
m-Xylene & p-Xylene	ND	H	50	3.7	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
o-Xylene	ND	H	50	3.7	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Styrene	ND	H	50	3.0	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Bromoform	ND	H	50	8.1	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
Isopropylbenzene	ND	H	50	3.2	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
1,1,2,2-Tetrachloroethane	ND	H	12	2.9	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
1,2,3-Trichloropropane	ND	H	50	14	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
trans-1,4-Dichloro-2-butene	ND	H	250	20	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1
t-Butylbenzene	ND	H	50	3.9	ug/Kg	☼	10/12/15 10:34	10/12/15 15:01	1

Client Sample ID: MW-10-23-A
Date Collected: 09/28/15 13:30
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-7
Matrix: Solid
Percent Solids: 87.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*95*		*65 - 140*	*10/12/15 10:34*	*10/12/15 15:01*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*	*10/12/15 10:34*	*10/12/15 15:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*71 - 136*	*10/12/15 10:34*	*10/12/15 15:01*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*	*10/12/15 10:34*	*10/12/15 15:01*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 132*	*10/12/15 10:34*	*10/12/15 15:01*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	H	31	14	ug/Kg	☼	10/12/15 10:34	10/22/15 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*95*		*65 - 140*	*10/12/15 10:34*	*10/22/15 13:21*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/12/15 10:34*	*10/22/15 13:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 136*	*10/12/15 10:34*	*10/22/15 13:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*10/12/15 10:34*	*10/22/15 13:21*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 132*	*10/12/15 10:34*	*10/22/15 13:21*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
2-Methylnaphthalene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Dimethyl phthalate	ND		11	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Acenaphthylene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Acenaphthene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Diethyl phthalate	**17**	**J B**	23	1.7	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Fluorene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Phenanthrene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Anthracene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Di-n-butyl phthalate	**9.4**	**J B**	57	5.7	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Fluoranthene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Pyrene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Butyl benzyl phthalate	**8.6**	**J B**	23	5.7	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Benzo[a]anthracene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Chrysene	ND		2.9	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Bis(2-ethylhexyl) phthalate	**28**	**J B**	69	5.7	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Di-n-octyl phthalate	**86**	**F1**	57	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Benzo[b]fluoranthene	ND		2.3	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Benzo[k]fluoranthene	ND		2.9	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Benzo[a]pyrene	ND		3.4	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Indeno[1,2,3-cd]pyrene	ND		4.6	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Dibenz(a,h)anthracene	ND		4.6	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1
Benzo[g,h,i]perylene	ND		2.9	0.57	ug/Kg	☼	10/09/15 18:44	10/16/15 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*110*		*42 - 151*	*10/09/15 18:44*	*10/16/15 22:06*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND	H	5.1	0.64	mg/Kg	☼	10/12/15 12:37	10/12/15 20:34	1

Client Sample ID: MW-10-23-A
Date Collected: 09/28/15 13:30
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-7
Matrix: Solid
Percent Solids: 87.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150	10/12/15 12:37	10/12/15 20:34	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.22	0.034	ug/Kg	☼	10/09/15 14:01	11/18/15 08:33	1
2,4'-DDE	ND		0.22	0.034	ug/Kg	☼	10/09/15 14:01	11/18/15 08:33	1
2,4'-DDT	ND		0.22	0.034	ug/Kg	☼	10/09/15 14:01	11/18/15 08:33	1
4,4'-DDD	**0.093**	**J B**	0.22	0.016	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
4,4'-DDE	ND		0.22	0.016	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
4,4'-DDT	**0.025**	**J**	0.22	0.017	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Aldrin	ND		0.11	0.025	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
alpha-BHC	ND		0.11	0.031	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
alpha-Chlordane	ND		0.11	0.015	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
beta-BHC	ND		0.11	0.036	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Chlordane (technical)	ND		1.1	0.16	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
cis-Nonachlor	ND		0.22	0.022	ug/Kg	☼	10/09/15 14:01	11/18/15 08:33	1
delta-BHC	ND		0.11	0.017	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Dieldrin	ND		0.22	0.013	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Endosulfan I	ND		0.11	0.011	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Endosulfan II	ND		0.22	0.019	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Endosulfan sulfate	ND		0.22	0.021	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Endrin	ND		0.22	0.018	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Endrin aldehyde	**0.14**	**J B**	0.22	0.022	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Endrin ketone	**0.29**	**B**	0.22	0.029	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
gamma-BHC (Lindane)	ND		0.11	0.034	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
gamma-Chlordane	ND		0.11	0.015	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Heptachlor	ND		0.22	0.052	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Heptachlor epoxide	**0.012**	**J B**	0.11	0.00034	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
Methoxychlor	**0.24**	**J**	1.1	0.029	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
oxy-Chlordane	ND		0.22	0.034	ug/Kg	☼	10/09/15 14:01	11/18/15 08:33	1
Toxaphene	ND		11	2.6	ug/Kg	☼	10/09/15 14:01	10/19/15 19:09	1
trans-Nonachlor	ND		0.22	0.034	ug/Kg	☼	10/09/15 14:01	11/18/15 08:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	61		60 - 128	10/09/15 14:01	10/19/15 19:09	1
DCB Decachlorobiphenyl	62		60 - 128	10/09/15 14:01	10/19/15 19:09	1
Tetrachloro-m-xylene	58		35 - 129	10/09/15 14:01	10/19/15 19:09	1
Tetrachloro-m-xylene	61		35 - 129	10/09/15 14:01	10/19/15 19:09	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.1	0.056	ug/Kg	☼	10/09/15 14:01	10/18/15 16:20	1
PCB-1221	ND		1.2	0.38	ug/Kg	☼	10/09/15 14:01	10/18/15 16:20	1
PCB-1232	ND		1.2	0.25	ug/Kg	☼	10/09/15 14:01	10/18/15 16:20	1
PCB-1242	ND		1.1	0.24	ug/Kg	☼	10/09/15 14:01	10/18/15 16:20	1
PCB-1248	ND		1.2	0.18	ug/Kg	☼	10/09/15 14:01	10/18/15 16:20	1
PCB-1254	ND		1.1	0.10	ug/Kg	☼	10/09/15 14:01	10/18/15 16:20	1
PCB-1260	ND		1.1	0.15	ug/Kg	☼	10/09/15 14:01	10/18/15 16:20	1
PCB-1262	ND		1.1	0.21	ug/Kg	☼	10/09/15 14:01	10/18/15 16:20	1
PCB-1268	ND		1.1	0.24	ug/Kg	☼	10/09/15 14:01	10/18/15 16:20	1
Polychlorinated biphenyls, Total	ND		1.2	0.38	ug/Kg	☼	10/09/15 14:01	10/18/15 16:20	1

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53710-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		50 - 140	10/09/15 14:01	10/18/15 16:20	1
Tetrachloro-m-xylene	57		45 - 135	10/09/15 14:01	10/18/15 16:20	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		28	4.0	mg/Kg	☼	10/11/15 08:58	10/12/15 18:37	1
Motor Oil (>C24-C36)	ND		55	10	mg/Kg	☼	10/11/15 08:58	10/12/15 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	10/11/15 08:58	10/12/15 18:37	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		16	16	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Antimony	0.22		0.11	0.023	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Arsenic	5.0		0.27	0.097	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Barium	170		0.27	0.042	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Cadmium	0.35		0.11	0.010	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Chromium	18		0.27	0.034	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Copper	21		0.22	0.053	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Lead	4.4		0.27	0.026	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Magnesium	5200		54	1.4	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Nickel	26		0.27	0.044	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Silver	0.016	J	0.11	0.0065	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5
Zinc	55		2.7	0.60	mg/Kg	☼	10/12/15 08:59	10/13/15 03:32	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.021	0.0063	mg/Kg	☼	10/13/15 07:02	10/13/15 11:30	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.68				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	100	J	2000	44	mg/Kg			10/12/15 15:00	1
TOC Result 2	87	J	2000	44	mg/Kg			10/12/15 15:00	1
TOC Result 1	120	J	2000	44	mg/Kg			10/12/15 15:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87		0.10	0.10	%			10/09/15 17:13	1
Percent Moisture	13		0.10	0.10	%			10/09/15 17:13	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-202332/1-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	170	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Acrolein	ND		1200	91	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Acrylonitrile	ND		400	96	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
2-Butanone	ND		400	52	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Bromomethane	ND		140	13	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Carbon disulfide	ND		40	4.4	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Benzene	ND		16	3.5	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Chloroethane	ND		400	16	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Chloroform	ND		40	4.2	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Chloromethane	ND		100	10	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Dibromomethane	ND		60	13	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Iodomethane	ND		200	6.3	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
2-Hexanone	ND		200	36	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Methylene Chloride	41.6		25	12	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Ethylbenzene	ND		40	2.0	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Tetrachloroethene	ND		20	5.3	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Toluene	ND		40	2.6	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
o-Xylene	ND		40	3.0	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Styrene	ND		40	2.4	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Bromoform	ND		40	6.5	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Isopropylbenzene	ND		40	2.6	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Trichloroethene	ND		24	3.1	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
t-Butylbenzene	ND		40	3.1	ug/Kg		10/02/15 10:04	10/02/15 13:58	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-202332/1-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		200	46	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Vinyl chloride	ND		16	7.1	ug/Kg		10/02/15 10:04	10/02/15 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*71 - 136*	*10/02/15 10:04*	*10/02/15 13:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*	*10/02/15 10:04*	*10/02/15 13:58*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*10/02/15 10:04*	*10/02/15 13:58*	*1*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/02/15 10:04*	*10/02/15 13:58*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/02/15 10:04*	*10/02/15 13:58*	*1*

Lab Sample ID: LCS 580-202332/2-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3200	2880		ug/Kg		90	20 - 160
Acrolein	4750	3800		ug/Kg		80	10 - 125
Acrylonitrile	8010	7640		ug/Kg		95	74 - 117
1,1-Dichloroethane	800	801		ug/Kg		100	70 - 128
2-Butanone	3200	2640		ug/Kg		83	30 - 160
Bromochloromethane	802	806		ug/Kg		101	78 - 123
Bromomethane	801	733		ug/Kg		91	57 - 148
Carbon disulfide	804	748		ug/Kg		93	45 - 160
1,1,1-Trichloroethane	803	792		ug/Kg		99	63 - 135
Carbon tetrachloride	802	775		ug/Kg		97	59 - 145
Benzene	803	780		ug/Kg		97	70 - 128
1,2-Dichloroethane	801	775		ug/Kg		97	71 - 128
Chloroethane	802	748		ug/Kg		93	48 - 167
Chloroform	800	802		ug/Kg		100	78 - 125
1,2-Dichloropropane	801	776		ug/Kg		97	76 - 161
Chloromethane	803	650		ug/Kg		81	55 - 136
cis-1,2-Dichloroethene	801	790		ug/Kg		99	70 - 130
Bromodichloromethane	803	795		ug/Kg		99	58 - 133
2-Chloroethyl vinyl ether	800	742		ug/Kg		93	60 - 150
cis-1,3-Dichloropropene	802	809		ug/Kg		101	69 - 129
Dibromomethane	803	775		ug/Kg		97	78 - 126
4-Methyl-2-pentanone	3200	2930		ug/Kg		92	45 - 145
Dichlorodifluoromethane	802	586		ug/Kg		73	38 - 150
Iodomethane	803	783		ug/Kg		97	44 - 148
1,1,2-Trichloroethane	802	795		ug/Kg		99	77 - 124
Methyl tert-butyl ether	801	778		ug/Kg		97	65 - 125
2-Hexanone	3200	2820		ug/Kg		88	45 - 145
Methylene Chloride	804	845		ug/Kg		105	57 - 146
Chlorodibromomethane	801	825		ug/Kg		103	42 - 129
1,2-Dibromoethane	801	788		ug/Kg		98	69 - 126
Chlorobenzene	803	814		ug/Kg		101	75 - 120
1,1,1,2-Tetrachloroethane	803	839		ug/Kg		104	72 - 123
Ethylbenzene	803	809		ug/Kg		101	78 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-202332/2-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	802	802		ug/Kg		100	56 - 155
m-Xylene & p-Xylene	802	810		ug/Kg		101	78 - 126
Toluene	801	799		ug/Kg		100	75 - 126
o-Xylene	801	823		ug/Kg		103	77 - 127
Styrene	801	831		ug/Kg		104	79 - 127
trans-1,2-Dichloroethene	802	782		ug/Kg		97	76 - 131
Bromoform	802	728		ug/Kg		91	50 - 124
trans-1,3-Dichloropropene	801	801		ug/Kg		100	72 - 129
Isopropylbenzene	801	846		ug/Kg		106	79 - 127
1,1,2,2-Tetrachloroethane	801	773		ug/Kg		96	73 - 125
Trichloroethene	802	787		ug/Kg		98	83 - 124
1,2,3-Trichloropropane	801	759		ug/Kg		95	77 - 123
Trichlorofluoromethane	801	735		ug/Kg		92	47 - 165
trans-1,4-Dichloro-2-butene	800	776		ug/Kg		97	42 - 160
t-Butylbenzene	800	860		ug/Kg		107	71 - 136
Vinyl acetate	2000	1790		ug/Kg		89	19 - 144
Vinyl chloride	805	750		ug/Kg		93	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*96*		*65 - 140*
Dibromofluoromethane (Surr)	*102*		*75 - 132*

Lab Sample ID: LCSD 580-202332/3-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202332

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3200	3000		ug/Kg		94	20 - 160	4	30
Acrolein	4750	3980		ug/Kg		84	10 - 125	4	30
Acrylonitrile	8010	7050		ug/Kg		88	74 - 117	8	30
1,1-Dichloroethane	800	803		ug/Kg		100	70 - 128	0	21
2-Butanone	3200	2950		ug/Kg		92	30 - 160	11	30
Bromochloromethane	802	846		ug/Kg		106	78 - 123	5	19
Bromomethane	801	715		ug/Kg		89	57 - 148	2	29
Carbon disulfide	804	739		ug/Kg		92	45 - 160	1	30
1,1,1-Trichloroethane	803	788		ug/Kg		98	63 - 135	0	20
Carbon tetrachloride	802	763		ug/Kg		95	59 - 145	2	19
Benzene	803	803		ug/Kg		100	70 - 128	3	19
1,2-Dichloroethane	801	816		ug/Kg		102	71 - 128	5	18
Chloroethane	802	752		ug/Kg		94	48 - 167	1	53
Chloroform	800	809		ug/Kg		101	78 - 125	1	17
1,2-Dichloropropane	801	826		ug/Kg		103	76 - 161	6	15
Chloromethane	803	661		ug/Kg		82	55 - 136	2	26
cis-1,2-Dichloroethene	801	802		ug/Kg		100	70 - 130	1	19
Bromodichloromethane	803	854		ug/Kg		106	58 - 133	7	19

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-202332/3-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202332

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloroethyl vinyl ether			800	894		ug/Kg		112	60 - 150	19	30
cis-1,3-Dichloropropene			802	843		ug/Kg		105	69 - 129	4	19
Dibromomethane			803	835		ug/Kg		104	78 - 126	7	18
4-Methyl-2-pentanone			3200	3430		ug/Kg		107	45 - 145	16	30
Dichlorodifluoromethane			802	589		ug/Kg		74	38 - 150	1	26
Iodomethane			803	791		ug/Kg		98	44 - 148	1	30
1,1,2-Trichloroethane			802	879		ug/Kg		110	77 - 124	10	18
Methyl tert-butyl ether			801	828		ug/Kg		103	65 - 125	6	30
2-Hexanone			3200	3630		ug/Kg		114	45 - 145	25	30
Methylene Chloride			804	857		ug/Kg		107	57 - 146	1	21
Chlorodibromomethane			801	900		ug/Kg		112	42 - 129	9	23
1,2-Dibromoethane			801	882		ug/Kg		110	69 - 126	11	21
Chlorobenzene			803	837		ug/Kg		104	75 - 120	3	21
1,1,1,2-Tetrachloroethane			803	816		ug/Kg		102	72 - 123	3	20
Ethylbenzene			803	816		ug/Kg		102	78 - 126	1	23
Tetrachloroethene			802	786		ug/Kg		98	56 - 155	2	27
m-Xylene & p-Xylene			802	823		ug/Kg		103	78 - 126	2	23
Toluene			801	800		ug/Kg		100	75 - 126	0	19
o-Xylene			801	808		ug/Kg		101	77 - 127	2	22
Styrene			801	889		ug/Kg		111	79 - 127	7	21
trans-1,2-Dichloroethene			802	779		ug/Kg		97	76 - 131	0	18
Bromoform			802	834		ug/Kg		104	50 - 124	14	25
trans-1,3-Dichloropropene			801	889		ug/Kg		111	72 - 129	10	20
Isopropylbenzene			801	813		ug/Kg		101	79 - 127	4	20
1,1,2,2-Tetrachloroethane			801	884		ug/Kg		110	73 - 125	13	22
Trichloroethene			802	809		ug/Kg		101	83 - 124	3	17
1,2,3-Trichloropropane			801	861		ug/Kg		108	77 - 123	13	23
Trichlorofluoromethane			801	730		ug/Kg		91	47 - 165	1	54
trans-1,4-Dichloro-2-butene			800	939		ug/Kg		117	42 - 160	19	30
t-Butylbenzene			800	809		ug/Kg		101	71 - 136	6	27
Vinyl acetate			2000	2060		ug/Kg		103	19 - 144	14	30
Vinyl chloride			805	815		ug/Kg		101	67 - 131	8	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*71 - 136*
4-Bromofluorobenzene (Surr)	*103*		*70 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*96*		*65 - 140*
Dibromofluoromethane (Surr)	*101*		*75 - 132*

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	170	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acrolein	ND		1200	91	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acrylonitrile	ND		400	96	ug/Kg		10/12/15 10:34	10/12/15 12:37	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Butanone	ND		400	52	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromomethane	ND		140	13	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Carbon disulfide	ND		40	4.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Benzene	ND		16	3.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloroethane	ND		400	16	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloroform	ND		40	4.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloromethane	ND		100	10	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Dibromomethane	ND		60	13	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Iodomethane	ND		200	6.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Hexanone	ND		200	36	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Ethylbenzene	ND		40	2.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Tetrachloroethene	ND		20	5.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Toluene	ND		40	2.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
o-Xylene	ND		40	3.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Styrene	ND		40	2.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromoform	ND		40	6.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Isopropylbenzene	ND		40	2.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Trichloroethene	ND		24	3.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
t-Butylbenzene	ND		40	3.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Vinyl acetate	ND		200	46	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Vinyl chloride	ND		16	7.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		71 - 136	10/12/15 10:34	10/12/15 12:37	1
4-Bromofluorobenzene (Surr)	96		70 - 120	10/12/15 10:34	10/12/15 12:37	1
Toluene-d8 (Surr)	106		80 - 120	10/12/15 10:34	10/12/15 12:37	1
Trifluorotoluene (Surr)	97		65 - 140	10/12/15 10:34	10/12/15 12:37	1
Dibromofluoromethane (Surr)	98		75 - 132	10/12/15 10:34	10/12/15 12:37	1

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3200	3760		ug/Kg		118	20 - 160
Acrolein	4750	4470		ug/Kg		94	10 - 125
Acrylonitrile	8010	8270		ug/Kg		103	74 - 117
1,1-Dichloroethane	800	724		ug/Kg		91	70 - 128
2-Butanone	3200	3530		ug/Kg		110	30 - 160
Bromochloromethane	802	712		ug/Kg		89	78 - 123
Bromomethane	801	563		ug/Kg		70	57 - 148
Carbon disulfide	804	725		ug/Kg		90	45 - 160
1,1,1-Trichloroethane	803	693		ug/Kg		86	63 - 135
Carbon tetrachloride	802	663		ug/Kg		83	59 - 145
Benzene	803	741		ug/Kg		92	70 - 128
1,2-Dichloroethane	801	699		ug/Kg		87	71 - 128
Chloroethane	802	591		ug/Kg		74	48 - 167
Chloroform	800	720		ug/Kg		90	78 - 125
1,2-Dichloropropane	801	724		ug/Kg		90	76 - 161
Chloromethane	803	687		ug/Kg		86	55 - 136
cis-1,2-Dichloroethene	801	695		ug/Kg		87	70 - 130
Bromodichloromethane	803	676		ug/Kg		84	58 - 133
2-Chloroethyl vinyl ether	800	841		ug/Kg		105	60 - 150
cis-1,3-Dichloropropene	802	762		ug/Kg		95	69 - 129
Dibromomethane	803	762		ug/Kg		95	78 - 126
4-Methyl-2-pentanone	3200	3720		ug/Kg		116	45 - 145
Dichlorodifluoromethane	802	617		ug/Kg		77	38 - 150
Iodomethane	803	716		ug/Kg		89	44 - 148
1,1,2-Trichloroethane	802	793		ug/Kg		99	77 - 124
Methyl tert-butyl ether	801	712		ug/Kg		89	65 - 125
2-Hexanone	3200	3740		ug/Kg		117	45 - 145
Chlorodibromomethane	801	758		ug/Kg		95	42 - 129
1,2-Dibromoethane	801	774		ug/Kg		97	69 - 126
Chlorobenzene	803	761		ug/Kg		95	75 - 120
1,1,1,2-Tetrachloroethane	803	709		ug/Kg		88	72 - 123
Ethylbenzene	803	773		ug/Kg		96	78 - 126
Tetrachloroethene	802	750		ug/Kg		94	56 - 155
m-Xylene & p-Xylene	802	796		ug/Kg		99	78 - 126
Toluene	801	783		ug/Kg		98	75 - 126
o-Xylene	801	777		ug/Kg		97	77 - 127
Styrene	801	782		ug/Kg		98	79 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	802	667		ug/Kg		83	76 - 131
Bromoform	802	728		ug/Kg		91	50 - 124
trans-1,3-Dichloropropene	801	752		ug/Kg		94	72 - 129
Isopropylbenzene	801	784		ug/Kg		98	79 - 127
1,1,2,2-Tetrachloroethane	801	827		ug/Kg		103	73 - 125
Trichloroethene	802	714		ug/Kg		89	83 - 124
1,2,3-Trichloropropane	801	838		ug/Kg		105	77 - 123
Trichlorofluoromethane	801	702		ug/Kg		88	47 - 165
trans-1,4-Dichloro-2-butene	800	826		ug/Kg		103	42 - 160
t-Butylbenzene	800	814		ug/Kg		102	71 - 136
Vinyl acetate	2000	2080		ug/Kg		104	19 - 144
Vinyl chloride	805	572		ug/Kg		71	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 136*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*65 - 140*
Dibromofluoromethane (Surr)	*96*		*75 - 132*

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3200	2890		ug/Kg		90	20 - 160	26	30
Acrolein	4750	3790		ug/Kg		80	10 - 125	16	30
Acrylonitrile	8010	7080		ug/Kg		88	74 - 117	16	30
1,1-Dichloroethane	800	708		ug/Kg		88	70 - 128	2	21
2-Butanone	3200	2960		ug/Kg		93	30 - 160	18	30
Bromochloromethane	802	694		ug/Kg		87	78 - 123	3	19
Bromomethane	801	601		ug/Kg		75	57 - 148	6	29
Carbon disulfide	804	709		ug/Kg		88	45 - 160	2	30
1,1,1-Trichloroethane	803	677		ug/Kg		84	63 - 135	2	20
Carbon tetrachloride	802	681		ug/Kg		85	59 - 145	3	19
Benzene	803	744		ug/Kg		93	70 - 128	0	19
1,2-Dichloroethane	801	688		ug/Kg		86	71 - 128	2	18
Chloroethane	802	650		ug/Kg		81	48 - 167	9	53
Chloroform	800	709		ug/Kg		89	78 - 125	2	17
1,2-Dichloropropane	801	702		ug/Kg		88	76 - 161	3	15
Chloromethane	803	695		ug/Kg		87	55 - 136	1	26
cis-1,2-Dichloroethene	801	671		ug/Kg		84	70 - 130	4	19
Bromodichloromethane	803	672		ug/Kg		84	58 - 133	1	19
2-Chloroethyl vinyl ether	800	783		ug/Kg		98	60 - 150	7	30
cis-1,3-Dichloropropene	802	755		ug/Kg		94	69 - 129	1	19
Dibromomethane	803	731		ug/Kg		91	78 - 126	4	18
4-Methyl-2-pentanone	3200	3200		ug/Kg		100	45 - 145	15	30
Dichlorodifluoromethane	802	593		ug/Kg		74	38 - 150	4	26

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iodomethane			803	690		ug/Kg		86	44 - 148	4	30
1,1,2-Trichloroethane			802	769		ug/Kg		96	77 - 124	3	18
Methyl tert-butyl ether			801	687		ug/Kg		86	65 - 125	4	30
2-Hexanone			3200	3160		ug/Kg		99	45 - 145	17	30
Chlorodibromomethane			801	756		ug/Kg		94	42 - 129	0	23
1,2-Dibromoethane			801	746		ug/Kg		93	69 - 126	4	21
Chlorobenzene			803	747		ug/Kg		93	75 - 120	2	21
1,1,1,2-Tetrachloroethane			803	731		ug/Kg		91	72 - 123	3	20
Ethylbenzene			803	755		ug/Kg		94	78 - 126	2	23
Tetrachloroethene			802	747		ug/Kg		93	56 - 155	0	27
m-Xylene & p-Xylene			802	782		ug/Kg		98	78 - 126	2	23
Toluene			801	774		ug/Kg		97	75 - 126	1	19
o-Xylene			801	779		ug/Kg		97	77 - 127	0	22
Styrene			801	780		ug/Kg		97	79 - 127	0	21
trans-1,2-Dichloroethene			802	681		ug/Kg		85	76 - 131	2	18
Bromoform			802	716		ug/Kg		89	50 - 124	2	25
trans-1,3-Dichloropropene			801	736		ug/Kg		92	72 - 129	2	20
Isopropylbenzene			801	796		ug/Kg		99	79 - 127	1	20
1,1,2,2-Tetrachloroethane			801	743		ug/Kg		93	73 - 125	11	22
Trichloroethene			802	709		ug/Kg		89	83 - 124	1	17
1,2,3-Trichloropropane			801	735		ug/Kg		92	77 - 123	13	23
Trichlorofluoromethane			801	685		ug/Kg		86	47 - 165	2	54
trans-1,4-Dichloro-2-butene			800	763		ug/Kg		95	42 - 160	8	30
t-Butylbenzene			800	818		ug/Kg		102	71 - 136	1	27
Vinyl acetate			2000	1790		ug/Kg		89	19 - 144	15	30
Vinyl chloride			805	592		ug/Kg		74	67 - 131	3	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 136*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*102*		*65 - 140*
Dibromofluoromethane (Surr)	*96*		*75 - 132*

Lab Sample ID: 580-53710-7 MS
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: MW-10-23-A
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND	H	3500	3190		ug/Kg	☼	91	20 - 160
Acrolein	ND	H	5190	4940		ug/Kg	☼	95	10 - 125
Acrylonitrile	ND	H	8750	8380		ug/Kg	☼	96	74 - 117
1,1-Dichloroethane	ND	H	874	884		ug/Kg	☼	101	75 - 125
2-Butanone	ND	H	3500	3360		ug/Kg	☼	96	30 - 160
Bromochloromethane	ND	H	876	816		ug/Kg	☼	93	70 - 125
Bromomethane	ND	H	875	921		ug/Kg	☼	105	30 - 160
Carbon disulfide	ND	H	878	903		ug/Kg	☼	103	45 - 160
1,1,1-Trichloroethane	ND	H	877	841		ug/Kg	☼	96	70 - 135

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-53710-7 MS
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: MW-10-23-A
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	ND	H	876	857		ug/Kg	☼	98	65 - 135
Benzene	ND	H	877	916		ug/Kg	☼	104	75 - 125
1,2-Dichloroethane	ND	H	875	843		ug/Kg	☼	96	70 - 135
Chloroethane	ND	H	877	996		ug/Kg	☼	114	40 - 155
Chloroform	ND	H	875	896		ug/Kg	☼	102	70 - 125
1,2-Dichloropropane	ND	H	875	870		ug/Kg	☼	99	70 - 120
Chloromethane	ND	H	878	954		ug/Kg	☼	109	50 - 130
cis-1,2-Dichloroethene	ND	H	876	870		ug/Kg	☼	99	65 - 125
Bromodichloromethane	ND	H	877	888		ug/Kg	☼	101	70 - 130
2-Chloroethyl vinyl ether	ND	H	874	950		ug/Kg	☼	109	60 - 150
cis-1,3-Dichloropropene	ND	H	877	893		ug/Kg	☼	102	70 - 125
Dibromomethane	ND	H	877	867		ug/Kg	☼	99	75 - 130
4-Methyl-2-pentanone	37	J H	3500	3930		ug/Kg	☼	113	45 - 145
Dichlorodifluoromethane	ND	H	876	787		ug/Kg	☼	90	35 - 135
Iodomethane	ND	H	878	920		ug/Kg	☼	105	44 - 148
1,1,2-Trichloroethane	ND	H	877	937		ug/Kg	☼	107	60 - 125
Methyl tert-butyl ether	ND	H	876	871		ug/Kg	☼	99	59 - 137
2-Hexanone	ND	H	3500	3710		ug/Kg	☼	106	45 - 145
Chlorodibromomethane	ND	H	875	946		ug/Kg	☼	108	65 - 130
1,2-Dibromoethane	ND	H	876	917		ug/Kg	☼	105	70 - 125
Chlorobenzene	ND	H	878	938		ug/Kg	☼	107	75 - 125
1,1,1,2-Tetrachloroethane	ND	H	878	931		ug/Kg	☼	106	75 - 125
Ethylbenzene	2.6	J H	878	934		ug/Kg	☼	106	75 - 125
Tetrachloroethene	ND	H	876	885		ug/Kg	☼	101	65 - 140
m-Xylene & p-Xylene	ND	H	876	974		ug/Kg	☼	111	80 - 125
Toluene	4.2	J H	875	943		ug/Kg	☼	107	70 - 125
o-Xylene	ND	H	875	980		ug/Kg	☼	112	75 - 125
Styrene	ND	H	875	998		ug/Kg	☼	114	75 - 125
trans-1,2-Dichloroethene	ND	H	876	845		ug/Kg	☼	97	65 - 135
Bromoform	ND	H	877	903		ug/Kg	☼	103	55 - 135
trans-1,3-Dichloropropene	ND	H	875	913		ug/Kg	☼	104	65 - 125
Isopropylbenzene	ND	H	875	1000		ug/Kg	☼	115	75 - 130
1,1,2,2-Tetrachloroethane	ND	H	875	981		ug/Kg	☼	112	55 - 130
Trichloroethene	ND	H	876	892		ug/Kg	☼	102	75 - 125
1,2,3-Trichloropropane	ND	H	875	911		ug/Kg	☼	104	65 - 130
Trichlorofluoromethane	ND	H	875	972		ug/Kg	☼	111	25 - 185
trans-1,4-Dichloro-2-butene	ND	H	874	868		ug/Kg	☼	99	42 - 160
t-Butylbenzene	ND	H	874	992		ug/Kg	☼	113	65 - 130
Vinyl acetate	ND	H	2190	2500		ug/Kg	☼	114	19 - 144
Vinyl chloride	ND	H	880	870		ug/Kg	☼	99	60 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 136*
4-Bromofluorobenzene (Surr)	*104*		*70 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*99*		*65 - 140*
Dibromofluoromethane (Surr)	*97*		*75 - 132*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-53710-7 MSD
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: MW-10-23-A
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND	H	3610	3080		ug/Kg	☼	85	20 - 160	4	30
Acrolein	ND	H	5370	4850		ug/Kg	☼	90	10 - 125	2	30
Acrylonitrile	ND	H	9040	8650		ug/Kg	☼	96	74 - 117	3	30
1,1-Dichloroethane	ND	H	903	929		ug/Kg	☼	103	75 - 125	5	30
2-Butanone	ND	H	3610	3470		ug/Kg	☼	96	30 - 160	3	30
Bromochloromethane	ND	H	905	878		ug/Kg	☼	97	70 - 125	7	30
Bromomethane	ND	H	905	902		ug/Kg	☼	100	30 - 160	2	30
Carbon disulfide	ND	H	908	929		ug/Kg	☼	102	45 - 160	3	30
1,1,1-Trichloroethane	ND	H	906	895		ug/Kg	☼	99	70 - 135	6	30
Carbon tetrachloride	ND	H	905	900		ug/Kg	☼	99	65 - 135	5	30
Benzene	ND	H	907	974		ug/Kg	☼	107	75 - 125	6	30
1,2-Dichloroethane	ND	H	904	882		ug/Kg	☼	98	70 - 135	5	30
Chloroethane	ND	H	906	904		ug/Kg	☼	100	40 - 155	10	30
Chloroform	ND	H	904	926		ug/Kg	☼	102	70 - 125	3	30
1,2-Dichloropropane	ND	H	904	919		ug/Kg	☼	102	70 - 120	5	30
Chloromethane	ND	H	907	887		ug/Kg	☼	98	50 - 130	7	30
cis-1,2-Dichloroethene	ND	H	905	906		ug/Kg	☼	100	65 - 125	4	30
Bromodichloromethane	ND	H	906	911		ug/Kg	☼	100	70 - 130	2	30
2-Chloroethyl vinyl ether	ND	H	904	1010		ug/Kg	☼	111	60 - 150	6	30
cis-1,3-Dichloropropene	ND	H	906	994		ug/Kg	☼	110	70 - 125	11	30
Dibromomethane	ND	H	906	954		ug/Kg	☼	105	75 - 130	10	30
4-Methyl-2-pentanone	37	J H	3610	4040		ug/Kg	☼	112	45 - 145	3	30
Dichlorodifluoromethane	ND	H	905	726		ug/Kg	☼	80	35 - 135	8	30
Iodomethane	ND	H	907	921		ug/Kg	☼	101	44 - 148	0	30
1,1,2-Trichloroethane	ND	H	906	974		ug/Kg	☼	107	60 - 125	4	30
Methyl tert-butyl ether	ND	H	905	882		ug/Kg	☼	97	59 - 137	1	30
2-Hexanone	ND	H	3610	3920		ug/Kg	☼	108	45 - 145	5	30
Chlorodibromomethane	ND	H	905	1010		ug/Kg	☼	112	65 - 130	7	30
1,2-Dibromoethane	ND	H	905	984		ug/Kg	☼	109	70 - 125	7	30
Chlorobenzene	ND	H	907	1010		ug/Kg	☼	111	75 - 125	7	30
1,1,1,2-Tetrachloroethane	ND	H	907	994		ug/Kg	☼	110	75 - 125	7	30
Ethylbenzene	2.6	J H	907	1000		ug/Kg	☼	110	75 - 125	7	30
Tetrachloroethene	ND	H	906	999		ug/Kg	☼	110	65 - 140	12	30
m-Xylene & p-Xylene	ND	H	906	1040		ug/Kg	☼	115	80 - 125	7	30
Toluene	4.2	J H	904	1050		ug/Kg	☼	115	70 - 125	11	30
o-Xylene	ND	H	905	1060		ug/Kg	☼	117	75 - 125	8	30
Styrene	ND	H	905	1040		ug/Kg	☼	115	75 - 125	4	30
trans-1,2-Dichloroethene	ND	H	905	863		ug/Kg	☼	95	65 - 135	2	30
Bromoform	ND	H	906	920		ug/Kg	☼	102	55 - 135	2	30
trans-1,3-Dichloropropene	ND	H	904	987		ug/Kg	☼	109	65 - 125	8	30
Isopropylbenzene	ND	H	904	1060		ug/Kg	☼	117	75 - 130	5	30
1,1,2,2-Tetrachloroethane	ND	H	905	976		ug/Kg	☼	108	55 - 130	0	30
Trichloroethene	ND	H	905	941		ug/Kg	☼	104	75 - 125	5	30
1,2,3-Trichloropropane	ND	H	904	1010		ug/Kg	☼	112	65 - 130	10	30
Trichlorofluoromethane	ND	H	904	920		ug/Kg	☼	102	25 - 185	5	30
trans-1,4-Dichloro-2-butene	ND	H	903	916		ug/Kg	☼	101	42 - 160	5	30
t-Butylbenzene	ND	H	904	1070		ug/Kg	☼	119	65 - 130	8	30
Vinyl acetate	ND	H	2260	2710		ug/Kg	☼	120	19 - 144	8	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-53710-7 MSD — **Client Sample ID: MW-10-23-A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203054 — **Prep Batch: 203073**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	ND	H	909	800		ug/Kg	☼	88	60 - 125	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 136*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*65 - 140*
Dibromofluoromethane (Surr)	*98*		*75 - 132*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Lab Sample ID: MB 580-203073/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 204000 — **Prep Batch: 203073**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride - RA	22.8	J	25	12	ug/Kg		10/12/15 10:34	10/22/15 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr) - RA	*95*		*71 - 136*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
4-Bromofluorobenzene (Surr) - RA	*100*		*70 - 120*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Toluene-d8 (Surr) - RA	*103*		*80 - 120*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Trifluorotoluene (Surr) - RA	*96*		*65 - 140*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Dibromofluoromethane (Surr) - RA	*97*		*75 - 132*	*10/12/15 10:34*	*10/22/15 11:09*	*1*

Lab Sample ID: LCS 580-203073/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 204000 — **Prep Batch: 203073**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride - RA	804	799		ug/Kg		99	57 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - RA	*97*		*71 - 136*
4-Bromofluorobenzene (Surr) - RA	*100*		*70 - 120*
Toluene-d8 (Surr) - RA	*100*		*80 - 120*
Trifluorotoluene (Surr) - RA	*98*		*65 - 140*
Dibromofluoromethane (Surr) - RA	*100*		*75 - 132*

Lab Sample ID: LCSD 580-203073/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 204000 — **Prep Batch: 203073**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride - RA	804	789		ug/Kg		98	57 - 146	1	21

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - RA	98		71 - 136
4-Bromofluorobenzene (Surr) - RA	101		70 - 120
Toluene-d8 (Surr) - RA	101		80 - 120
Trifluorotoluene (Surr) - RA	99		65 - 140
Dibromofluoromethane (Surr) - RA	99		75 - 132

Lab Sample ID: 580-53710-7 MS
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: MW-10-23-A
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride - RA	ND	H	878	714		ug/Kg	☼	81	55 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - RA	97		71 - 136
4-Bromofluorobenzene (Surr) - RA	104		70 - 120
Toluene-d8 (Surr) - RA	101		80 - 120
Trifluorotoluene (Surr) - RA	97		65 - 140
Dibromofluoromethane (Surr) - RA	99		75 - 132

Lab Sample ID: 580-53710-7 MSD
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: MW-10-23-A
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride - RA	ND	H	908	740		ug/Kg	☼	82	55 - 140	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - RA	97		71 - 136
4-Bromofluorobenzene (Surr) - RA	99		70 - 120
Toluene-d8 (Surr) - RA	100		80 - 120
Trifluorotoluene (Surr) - RA	97		65 - 140
Dibromofluoromethane (Surr) - RA	101		75 - 132

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-202235/1-A
Matrix: Solid
Analysis Batch: 203464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-202235/1-A
Matrix: Solid
Analysis Batch: 203464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	8.09	J	20	1.5	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Fluorene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Anthracene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Pyrene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Butyl benzyl phthalate	5.44	J	20	5.0	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Chrysene	ND		2.5	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Bis(2-ethylhexyl) phthalate	5.97	J	60	5.0	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*117*		*42 - 151*	*10/01/15 12:45*	*10/15/15 18:07*	*1*

Lab Sample ID: LCS 580-202235/2-A
Matrix: Solid
Analysis Batch: 204119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	500	389		ug/Kg		78	62 - 112
2-Methylnaphthalene	500	392		ug/Kg		78	64 - 119
Dimethyl phthalate	500	471		ug/Kg		94	78 - 117
Acenaphthylene	500	446		ug/Kg		89	68 - 120
Acenaphthene	500	419		ug/Kg		84	68 - 116
Diethyl phthalate	500	425		ug/Kg		85	73 - 116
Fluorene	500	459		ug/Kg		92	70 - 121
Phenanthrene	500	431		ug/Kg		86	73 - 106
Anthracene	500	501		ug/Kg		100	73 - 116
Di-n-butyl phthalate	500	543		ug/Kg		109	66 - 140
Fluoranthene	500	514		ug/Kg		103	73 - 125
Pyrene	500	482		ug/Kg		96	70 - 120
Butyl benzyl phthalate	500	514		ug/Kg		103	69 - 142
Benzo[a]anthracene	500	479		ug/Kg		96	76 - 119
Chrysene	500	428		ug/Kg		86	75 - 114
Bis(2-ethylhexyl) phthalate	500	498		ug/Kg		100	62 - 144
Di-n-octyl phthalate	500	603		ug/Kg		121	65 - 141
Benzo[b]fluoranthene	500	492		ug/Kg		98	63 - 132
Benzo[k]fluoranthene	500	561		ug/Kg		112	63 - 119
Benzo[a]pyrene	500	485		ug/Kg		97	72 - 117
Indeno[1,2,3-cd]pyrene	500	283		ug/Kg		57	56 - 127

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-202235/2-A
Matrix: Solid
Analysis Batch: 204119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202235

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dibenz(a,h)anthracene			500	290		ug/Kg		58	56 - 134		
Benzo[g,h,i]perylene			500	284		ug/Kg		57	55 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*105*		*42 - 151*

Lab Sample ID: LCSD 580-202235/3-A
Matrix: Solid
Analysis Batch: 204119

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			500	383		ug/Kg		77	62 - 112	1	26
2-Methylnaphthalene			500	399		ug/Kg		80	64 - 119	2	27
Dimethyl phthalate			500	471		ug/Kg		94	78 - 117	0	30
Acenaphthylene			500	446		ug/Kg		89	68 - 120	0	28
Acenaphthene			500	415		ug/Kg		83	68 - 116	1	27
Diethyl phthalate			500	427		ug/Kg		85	73 - 116	0	26
Fluorene			500	465		ug/Kg		93	70 - 121	1	30
Phenanthrene			500	429		ug/Kg		86	73 - 106	1	28
Anthracene			500	503		ug/Kg		101	73 - 116	0	27
Di-n-butyl phthalate			500	536		ug/Kg		107	66 - 140	1	30
Fluoranthene			500	500		ug/Kg		100	73 - 125	3	30
Pyrene			500	475		ug/Kg		95	70 - 120	1	30
Butyl benzyl phthalate			500	539		ug/Kg		108	69 - 142	5	30
Benzo[a]anthracene			500	476		ug/Kg		95	76 - 119	1	27
Chrysene			500	438		ug/Kg		88	75 - 114	2	26
Bis(2-ethylhexyl) phthalate			500	504		ug/Kg		101	62 - 144	1	30
Di-n-octyl phthalate			500	573		ug/Kg		115	65 - 141	5	30
Benzo[b]fluoranthene			500	484		ug/Kg		97	63 - 132	2	30
Benzo[k]fluoranthene			500	520		ug/Kg		104	63 - 119	8	30
Benzo[a]pyrene			500	489		ug/Kg		98	72 - 117	1	30
Indeno[1,2,3-cd]pyrene			500	458	*	ug/Kg		92	56 - 127	47	29
Dibenz(a,h)anthracene			500	452	*	ug/Kg		90	56 - 134	43	30
Benzo[g,h,i]perylene			500	485	*	ug/Kg		97	55 - 139	52	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*103*		*42 - 151*

Lab Sample ID: MB 580-202944/1-A
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-202944/1-A
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	16.6	J	20	1.5	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Fluorene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Anthracene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Di-n-butyl phthalate	5.30	J	50	5.0	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Pyrene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Butyl benzyl phthalate	5.90	J	20	5.0	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Chrysene	ND		2.5	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Bis(2-ethylhexyl) phthalate	33.7	J	60	5.0	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*116*		*42 - 151*	*10/09/15 18:44*	*10/16/15 20:23*	*1*

Lab Sample ID: LCS 580-202944/2-A
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	100	77.6		ug/Kg		78	62 - 112
2-Methylnaphthalene	100	84.8		ug/Kg		85	64 - 119
Dimethyl phthalate	100	92.0		ug/Kg		92	78 - 117
Acenaphthylene	100	84.4		ug/Kg		84	68 - 120
Acenaphthene	100	80.5		ug/Kg		80	68 - 116
Diethyl phthalate	100	104		ug/Kg		104	73 - 116
Fluorene	100	90.2		ug/Kg		90	70 - 121
Phenanthrene	100	83.8		ug/Kg		84	73 - 106
Anthracene	100	97.5		ug/Kg		97	73 - 116
Di-n-butyl phthalate	100	115		ug/Kg		115	66 - 140
Fluoranthene	100	109		ug/Kg		109	73 - 125
Pyrene	100	101		ug/Kg		101	70 - 120
Butyl benzyl phthalate	100	102		ug/Kg		102	69 - 142
Benzo[a]anthracene	100	92.5		ug/Kg		93	76 - 119
Chrysene	100	86.3		ug/Kg		86	75 - 114
Bis(2-ethylhexyl) phthalate	100	111		ug/Kg		111	62 - 144
Di-n-octyl phthalate	100	99.2		ug/Kg		99	65 - 141
Benzo[b]fluoranthene	100	95.1		ug/Kg		95	63 - 132
Benzo[k]fluoranthene	100	104		ug/Kg		104	63 - 119
Benzo[a]pyrene	100	94.7		ug/Kg		95	72 - 117
Indeno[1,2,3-cd]pyrene	100	88.9		ug/Kg		89	56 - 127

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-202944/2-A
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202944

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dibenz(a,h)anthracene			100	102		ug/Kg		102	56 - 134		
Benzo[g,h,i]perylene			100	99.5		ug/Kg		100	55 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*117*		*42 - 151*

Lab Sample ID: LCSD 580-202944/3-A
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202944

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			100	81.9		ug/Kg		82	62 - 112	5	26
2-Methylnaphthalene			100	90.0		ug/Kg		90	64 - 119	6	27
Dimethyl phthalate			100	97.2		ug/Kg		97	78 - 117	6	30
Acenaphthylene			100	86.2		ug/Kg		86	68 - 120	2	28
Acenaphthene			100	81.1		ug/Kg		81	68 - 116	1	27
Diethyl phthalate			100	103		ug/Kg		103	73 - 116	1	26
Fluorene			100	91.0		ug/Kg		91	70 - 121	1	30
Phenanthrene			100	86.0		ug/Kg		86	73 - 106	2	28
Anthracene			100	103		ug/Kg		103	73 - 116	5	27
Di-n-butyl phthalate			100	118		ug/Kg		118	66 - 140	3	30
Fluoranthene			100	110		ug/Kg		110	73 - 125	1	30
Pyrene			100	104		ug/Kg		104	70 - 120	2	30
Butyl benzyl phthalate			100	101		ug/Kg		101	69 - 142	1	30
Benzo[a]anthracene			100	95.1		ug/Kg		95	76 - 119	3	27
Chrysene			100	88.4		ug/Kg		88	75 - 114	2	26
Bis(2-ethylhexyl) phthalate			100	111		ug/Kg		111	62 - 144	0	30
Di-n-octyl phthalate			100	102		ug/Kg		102	65 - 141	3	30
Benzo[b]fluoranthene			100	97.8		ug/Kg		98	63 - 132	3	30
Benzo[k]fluoranthene			100	106		ug/Kg		106	63 - 119	3	30
Benzo[a]pyrene			100	97.6		ug/Kg		98	72 - 117	3	30
Indeno[1,2,3-cd]pyrene			100	92.2		ug/Kg		92	56 - 127	4	29
Dibenz(a,h)anthracene			100	108		ug/Kg		108	56 - 134	6	30
Benzo[g,h,i]perylene			100	103		ug/Kg		103	55 - 139	3	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*117*		*42 - 151*

Lab Sample ID: 580-53710-7 MS
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: MW-10-23-A
Prep Type: Total/NA
Prep Batch: 202944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene	ND		111	82.4		ug/Kg	☼	74	62 - 112		
2-Methylnaphthalene	ND		111	90.2		ug/Kg	☼	81	64 - 119		
Dimethyl phthalate	ND		111	103		ug/Kg	☼	93	78 - 117		
Acenaphthylene	ND		111	90.3		ug/Kg	☼	81	68 - 120		
Acenaphthene	ND		111	85.5		ug/Kg	☼	77	68 - 116		

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-53710-7 MS
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: MW-10-23-A
Prep Type: Total/NA
Prep Batch: 202944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diethyl phthalate	17	J B	111	111		ug/Kg	☼	84	73 - 116
Fluorene	ND		111	97.4		ug/Kg	☼	88	70 - 121
Phenanthrene	ND		111	90.1		ug/Kg	☼	81	73 - 106
Anthracene	ND		111	104		ug/Kg	☼	93	73 - 116
Di-n-butyl phthalate	9.4	J B	111	128		ug/Kg	☼	107	66 - 140
Fluoranthene	ND		111	118		ug/Kg	☼	106	73 - 125
Pyrene	ND		111	110		ug/Kg	☼	99	70 - 120
Butyl benzyl phthalate	8.6	J B	111	108		ug/Kg	☼	89	69 - 142
Benzo[a]anthracene	ND		111	97.5		ug/Kg	☼	88	76 - 119
Chrysene	ND		111	92.3		ug/Kg	☼	83	75 - 114
Bis(2-ethylhexyl) phthalate	28	J B	111	138		ug/Kg	☼	99	62 - 144
Di-n-octyl phthalate	86	F1	111	110	F1	ug/Kg	☼	22	65 - 141
Benzo[b]fluoranthene	ND		111	108		ug/Kg	☼	97	63 - 132
Benzo[k]fluoranthene	ND		111	104		ug/Kg	☼	94	63 - 119
Benzo[a]pyrene	ND		111	101		ug/Kg	☼	91	72 - 117
Indeno[1,2,3-cd]pyrene	ND		111	97.3		ug/Kg	☼	88	56 - 127
Dibenz(a,h)anthracene	ND		111	115		ug/Kg	☼	103	56 - 134
Benzo[g,h,i]perylene	ND		111	106		ug/Kg	☼	96	55 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*114*		*42 - 151*

Lab Sample ID: 580-53710-7 MSD
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: MW-10-23-A
Prep Type: Total/NA
Prep Batch: 202944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		110	88.1		ug/Kg	☼	80	62 - 112	7	26
2-Methylnaphthalene	ND		110	95.8		ug/Kg	☼	87	64 - 119	6	27
Dimethyl phthalate	ND		110	107		ug/Kg	☼	97	78 - 117	4	60
Acenaphthylene	ND		110	93.2		ug/Kg	☼	85	68 - 120	3	28
Acenaphthene	ND		110	87.9		ug/Kg	☼	80	68 - 116	3	27
Diethyl phthalate	17	J B	110	113		ug/Kg	☼	87	73 - 116	2	26
Fluorene	ND		110	99.2		ug/Kg	☼	90	70 - 121	2	31
Phenanthrene	ND		110	89.9		ug/Kg	☼	82	73 - 106	0	28
Anthracene	ND		110	110		ug/Kg	☼	100	73 - 116	6	27
Di-n-butyl phthalate	9.4	J B	110	127		ug/Kg	☼	107	66 - 140	1	60
Fluoranthene	ND		110	119		ug/Kg	☼	108	73 - 125	1	36
Pyrene	ND		110	111		ug/Kg	☼	101	70 - 120	1	31
Butyl benzyl phthalate	8.6	J B	110	105		ug/Kg	☼	87	69 - 142	3	60
Benzo[a]anthracene	ND		110	101		ug/Kg	☼	91	76 - 119	3	27
Chrysene	ND		110	91.3		ug/Kg	☼	83	75 - 114	1	26
Bis(2-ethylhexyl) phthalate	28	J B	110	122		ug/Kg	☼	85	62 - 144	12	60
Di-n-octyl phthalate	86	F1	110	136	F1	ug/Kg	☼	46	65 - 141	21	31
Benzo[b]fluoranthene	ND		110	106		ug/Kg	☼	96	63 - 132	2	31
Benzo[k]fluoranthene	ND		110	115		ug/Kg	☼	104	63 - 119	9	31
Benzo[a]pyrene	ND		110	106		ug/Kg	☼	96	72 - 117	5	30
Indeno[1,2,3-cd]pyrene	ND		110	99.6		ug/Kg	☼	91	56 - 127	2	29

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-53710-7 MSD — **Client Sample ID: MW-10-23-A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203587 — **Prep Batch: 202944**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenz(a,h)anthracene	ND		110	118		ug/Kg	☼	107	56 - 134	3	30
Benzo[g,h,i]perylene	ND		110	109		ug/Kg	☼	99	55 - 139	2	28

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*115*		*42 - 151*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-202577/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 202593 — **Prep Batch: 202577**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	0.855	J	4.0	0.50	mg/Kg		10/06/15 13:42	10/06/15 15:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*	*10/06/15 13:42*	*10/06/15 15:34*	*1*

Lab Sample ID: LCS 580-202577/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 202593 — **Prep Batch: 202577**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	40.0	33.5		mg/Kg		84	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*

Lab Sample ID: LCSD 580-202577/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 202593 — **Prep Batch: 202577**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	40.0	34.5		mg/Kg		86	68 - 120	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*

Lab Sample ID: MB 580-203085/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203132 — **Prep Batch: 203085**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.50	mg/Kg		10/12/15 12:34	10/12/15 18:21	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-203085/1-A
Matrix: Solid
Analysis Batch: 203132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203085

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150	10/12/15 12:34	10/12/15 18:21	1

Lab Sample ID: LCS 580-203085/2-A
Matrix: Solid
Analysis Batch: 203132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203085

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			40.0	34.3		mg/Kg		86	68 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		50 - 150

Lab Sample ID: LCSD 580-203085/3-A
Matrix: Solid
Analysis Batch: 203132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203085

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	35.8		mg/Kg		90	68 - 120	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		50 - 150

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 580-202233/9-A
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.20	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
2,4'-DDE	ND		0.20	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
2,4'-DDT	ND		0.20	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
4,4'-DDD	ND		0.20	0.015	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
4,4'-DDT	ND		0.20	0.015	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Aldrin	ND		0.10	0.022	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
alpha-BHC	ND		0.10	0.028	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
beta-BHC	ND		0.10	0.032	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Chlordane (technical)	ND		1.0	0.14	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
cis-Nonachlor	ND		0.20	0.019	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
delta-BHC	ND		0.10	0.015	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Dieldrin	ND		0.20	0.012	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endosulfan II	ND		0.20	0.017	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endosulfan sulfate	ND		0.20	0.019	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endrin	ND		0.20	0.016	ug/Kg		10/01/15 12:32	11/17/15 23:05	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-202233/9-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205885 — **Prep Batch: 202233**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.20	0.020	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endrin ketone	ND		0.20	0.026	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
gamma-BHC (Lindane)	ND		0.10	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Heptachlor	0.0490	J	0.20	0.046	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Heptachlor epoxide	ND		0.10	0.00030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Methoxychlor	ND		1.0	0.026	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
oxy-Chlordane	ND		0.20	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Toxaphene	ND		10	2.3	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
trans-Nonachlor	ND		0.20	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*	*X*	*60 - 128*	*10/01/15 12:32*	*11/17/15 23:05*	*1*
DCB Decachlorobiphenyl	*70*		*60 - 128*	*10/01/15 12:32*	*11/17/15 23:05*	*1*
Tetrachloro-m-xylene	*66*		*35 - 129*	*10/01/15 12:32*	*11/17/15 23:05*	*1*
Tetrachloro-m-xylene	*63*		*35 - 129*	*10/01/15 12:32*	*11/17/15 23:05*	*1*

Lab Sample ID: LCS 580-202233/16-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205885 — **Prep Batch: 202233**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlordane (technical)			1.00	1.33	*	ug/Kg		133	45 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*74*		*60 - 128*
Tetrachloro-m-xylene	*63*		*35 - 129*
Tetrachloro-m-xylene	*63*		*35 - 129*

Lab Sample ID: LCSD 580-202233/17-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205885 — **Prep Batch: 202233**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane (technical)			1.00	0.902	J	ug/Kg		90	45 - 131	38	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*48*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*67*		*60 - 128*
Tetrachloro-m-xylene	*64*		*35 - 129*
Tetrachloro-m-xylene	*61*		*35 - 129*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-202920/1-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0757	J	0.20	0.015	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
4,4'-DDT	ND		0.20	0.015	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Aldrin	ND		0.10	0.022	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
alpha-BHC	ND		0.10	0.028	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
beta-BHC	ND		0.10	0.032	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Chlordane (technical)	ND		1.0	0.14	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
delta-BHC	ND		0.10	0.015	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Dieldrin	ND		0.20	0.012	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endosulfan II	ND		0.20	0.017	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endosulfan sulfate	ND		0.20	0.019	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endrin	ND		0.20	0.016	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endrin aldehyde	0.0226	J	0.20	0.020	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endrin ketone	0.103	J	0.20	0.026	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
gamma-BHC (Lindane)	ND		0.10	0.030	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Heptachlor	ND		0.20	0.046	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Heptachlor epoxide	0.00117	J	0.10	0.00030	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Methoxychlor	ND		1.0	0.026	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Toxaphene	ND		10	2.3	ug/Kg		10/09/15 14:01	10/19/15 17:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*	*X*	*60 - 128*	*10/09/15 14:01*	*10/19/15 17:28*	*1*
DCB Decachlorobiphenyl	*60*		*60 - 128*	*10/09/15 14:01*	*10/19/15 17:28*	*1*
Tetrachloro-m-xylene	*51*		*35 - 129*	*10/09/15 14:01*	*10/19/15 17:28*	*1*
Tetrachloro-m-xylene	*51*		*35 - 129*	*10/09/15 14:01*	*10/19/15 17:28*	*1*

Lab Sample ID: MB 580-202920/1-A
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.20	0.030	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
2,4'-DDE	ND		0.20	0.030	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
2,4'-DDT	ND		0.20	0.030	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
4,4'-DDD	ND		0.20	0.015	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
4,4'-DDT	ND		0.20	0.015	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Aldrin	ND		0.10	0.022	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
alpha-BHC	ND		0.10	0.028	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
beta-BHC	ND		0.10	0.032	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Chlordane (technical)	ND		1.0	0.14	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
cis-Nonachlor	ND		0.20	0.019	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
delta-BHC	ND		0.10	0.015	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Dieldrin	ND		0.20	0.012	ug/Kg		10/09/15 14:01	11/18/15 01:05	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-202920/1-A
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.10	0.010	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Endosulfan II	ND		0.20	0.017	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Endosulfan sulfate	ND		0.20	0.019	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Endrin	ND		0.20	0.016	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Endrin aldehyde	ND		0.20	0.020	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Endrin ketone	ND		0.20	0.026	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
gamma-BHC (Lindane)	ND		0.10	0.030	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Heptachlor	ND		0.20	0.046	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Heptachlor epoxide	ND		0.10	0.00030	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Methoxychlor	ND		1.0	0.026	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
oxy-Chlordane	ND		0.20	0.030	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
Toxaphene	ND		10	2.3	ug/Kg		10/09/15 14:01	11/18/15 01:05	1
trans-Nonachlor	ND		0.20	0.030	ug/Kg		10/09/15 14:01	11/18/15 01:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*	*X*	*60 - 128*	*10/09/15 14:01*	*11/18/15 01:05*	*1*
DCB Decachlorobiphenyl	*66*		*60 - 128*	*10/09/15 14:01*	*11/18/15 01:05*	*1*
Tetrachloro-m-xylene	*70*		*35 - 129*	*10/09/15 14:01*	*11/18/15 01:05*	*1*
Tetrachloro-m-xylene	*65*		*35 - 129*	*10/09/15 14:01*	*11/18/15 01:05*	*1*

Lab Sample ID: LCS 580-202920/2-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.00	3.65		ug/Kg		73	48 - 136
4,4'-DDE	5.00	3.58		ug/Kg		72	50 - 138
4,4'-DDT	5.00	3.64		ug/Kg		73	53 - 132
Aldrin	5.00	3.07		ug/Kg		61	59 - 127
alpha-BHC	5.00	3.04		ug/Kg		61	48 - 132
alpha-Chlordane	5.00	3.41		ug/Kg		68	52 - 137
beta-BHC	5.00	3.30		ug/Kg		66	45 - 122
delta-BHC	5.00	3.16		ug/Kg		63	27 - 124
Dieldrin	5.00	3.50		ug/Kg		70	53 - 145
Endosulfan I	5.00	3.38		ug/Kg		68	57 - 140
Endosulfan II	5.00	3.32		ug/Kg		66	58 - 144
Endosulfan sulfate	5.00	3.43		ug/Kg		69	55 - 125
Endrin	5.00	3.71		ug/Kg		74	51 - 143
Endrin aldehyde	5.00	2.77		ug/Kg		55	45 - 130
Endrin ketone	5.00	3.63		ug/Kg		73	53 - 139
gamma-BHC (Lindane)	5.00	3.04		ug/Kg		61	47 - 127
gamma-Chlordane	5.00	3.59		ug/Kg		72	52 - 137
Heptachlor	5.00	3.04		ug/Kg		61	43 - 141
Heptachlor epoxide	5.00	3.39		ug/Kg		68	47 - 143
Methoxychlor	5.00	3.54		ug/Kg		71	56 - 137

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 580-202920/2-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202920

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	57	X	60 - 128
DCB Decachlorobiphenyl	63		60 - 128
Tetrachloro-m-xylene	57		35 - 129
Tetrachloro-m-xylene	58		35 - 129

Lab Sample ID: LCS 580-202920/6-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	50.0	30.5		ug/Kg		61	48 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	49	X	60 - 128
DCB Decachlorobiphenyl	52	X	60 - 128
Tetrachloro-m-xylene	43		35 - 129
Tetrachloro-m-xylene	44		35 - 129

Lab Sample ID: LCS 580-202920/8-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlordane (technical)	25.0	16.3		ug/Kg		65	45 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	52	X	60 - 128
DCB Decachlorobiphenyl	55	X	60 - 128
Tetrachloro-m-xylene	48		35 - 129
Tetrachloro-m-xylene	51		35 - 129

Lab Sample ID: LCSD 580-202920/3-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	5.00	3.47		ug/Kg		69	48 - 136	5	18
4,4'-DDE	5.00	3.37		ug/Kg		67	50 - 138	6	17
4,4'-DDT	5.00	3.38		ug/Kg		68	53 - 132	7	20
Aldrin	5.00	2.93		ug/Kg		59	59 - 127	5	19
alpha-BHC	5.00	2.93		ug/Kg		59	48 - 132	4	17
alpha-Chlordane	5.00	3.17		ug/Kg		63	52 - 137	7	17
beta-BHC	5.00	3.17		ug/Kg		63	45 - 122	4	18
delta-BHC	5.00	2.96		ug/Kg		59	27 - 124	7	19
Dieldrin	5.00	3.21		ug/Kg		64	53 - 145	9	18
Endosulfan I	5.00	3.17		ug/Kg		63	57 - 140	6	19
Endosulfan II	5.00	3.10		ug/Kg		62	58 - 144	7	19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 580-202920/3-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202920

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan sulfate			5.00	3.20		ug/Kg		64	55 - 125	7	18
Endrin			5.00	3.46		ug/Kg		69	51 - 143	7	18
Endrin aldehyde			5.00	2.60		ug/Kg		52	45 - 130	6	21
Endrin ketone			5.00	3.15		ug/Kg		63	53 - 139	14	17
gamma-BHC (Lindane)			5.00	2.86		ug/Kg		57	47 - 127	6	17
gamma-Chlordane			5.00	3.31		ug/Kg		66	52 - 137	8	17
Heptachlor			5.00	2.97		ug/Kg		59	43 - 141	2	18
Heptachlor epoxide			5.00	3.16		ug/Kg		63	47 - 143	7	17
Methoxychlor			5.00	3.32		ug/Kg		66	56 - 137	7	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*60*		*60 - 128*
Tetrachloro-m-xylene	*57*		*35 - 129*
Tetrachloro-m-xylene	*55*		*35 - 129*

Lab Sample ID: LCSD 580-202920/7-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202920

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene			50.0	32.6		ug/Kg		65	48 - 141	7	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*58*	*X*	*60 - 128*
Tetrachloro-m-xylene	*52*		*35 - 129*
Tetrachloro-m-xylene	*53*		*35 - 129*

Lab Sample ID: LCSD 580-202920/9-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202920

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane (technical)			25.0	17.7		ug/Kg		71	45 - 131	9	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*56*	*X*	*60 - 128*
Tetrachloro-m-xylene	*46*		*35 - 129*
Tetrachloro-m-xylene	*50*		*35 - 129*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 580-53710-3 MS
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.026	J B	6.29	3.61		ug/Kg	☼	57	48 - 136
4,4'-DDE	0.023	J F1	6.29	3.00	F1	ug/Kg	☼	47	50 - 138
4,4'-DDT	ND		6.29	3.56		ug/Kg	☼	57	53 - 132
Aldrin	0.061	J F1	6.29	3.33	F1	ug/Kg	☼	52	59 - 127
alpha-BHC	ND		6.29	3.50		ug/Kg	☼	56	48 - 132
alpha-Chlordane	ND		6.29	3.42		ug/Kg	☼	54	52 - 137
beta-BHC	0.28		6.29	3.57		ug/Kg	☼	52	45 - 122
delta-BHC	0.13		6.29	3.19		ug/Kg	☼	49	27 - 124
Dieldrin	ND		6.29	3.63		ug/Kg	☼	58	53 - 145
Endosulfan I	ND	F1	6.29	3.40	F1	ug/Kg	☼	54	57 - 140
Endosulfan II	ND	F1	6.29	3.25	F1	ug/Kg	☼	52	58 - 144
Endosulfan sulfate	ND		6.29	3.56		ug/Kg	☼	57	55 - 125
Endrin	ND		6.29	3.49		ug/Kg	☼	56	51 - 143
Endrin aldehyde	ND	F1	6.29	2.65	F1	ug/Kg	☼	42	45 - 130
Endrin ketone	0.25	B	6.29	3.76		ug/Kg	☼	56	53 - 139
gamma-BHC (Lindane)	ND	F1	6.29	ND	F1	ug/Kg	☼	0	47 - 127
gamma-Chlordane	0.10	J	6.29	3.78		ug/Kg	☼	59	52 - 137
Heptachlor	ND		6.29	3.28		ug/Kg	☼	52	43 - 141
Heptachlor epoxide	0.15	B	6.29	3.57		ug/Kg	☼	54	47 - 143
Methoxychlor	ND		6.29	3.74		ug/Kg	☼	60	56 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*53*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*56*	*X*	*60 - 128*
Tetrachloro-m-xylene	*48*		*35 - 129*
Tetrachloro-m-xylene	*53*		*35 - 129*

Lab Sample ID: 580-53710-3 MS
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		6.29	4.86		ug/Kg	☼	77	48 - 136
4,4'-DDE	ND		6.29	4.70		ug/Kg	☼	75	50 - 138
4,4'-DDT	ND		6.29	4.95		ug/Kg	☼	79	53 - 132
Aldrin	ND		6.29	4.11		ug/Kg	☼	65	59 - 127
alpha-BHC	ND		6.29	4.26		ug/Kg	☼	68	48 - 132
alpha-Chlordane	ND	F1	6.29	3.54		ug/Kg	☼	56	52 - 137
beta-BHC	ND		6.29	4.18		ug/Kg	☼	67	45 - 122
delta-BHC	ND		6.29	4.75		ug/Kg	☼	75	27 - 124
Dieldrin	ND		6.29	4.36		ug/Kg	☼	69	53 - 145
Endosulfan I	ND		6.29	4.51		ug/Kg	☼	72	57 - 140
Endosulfan II	ND		6.29	4.56		ug/Kg	☼	73	58 - 144
Endosulfan sulfate	ND		6.29	4.84		ug/Kg	☼	77	55 - 125
Endrin	ND		6.29	5.10		ug/Kg	☼	81	51 - 143
Endrin aldehyde	ND		6.29	4.78		ug/Kg	☼	76	45 - 130
Endrin ketone	ND		6.29	5.78		ug/Kg	☼	92	53 - 139
gamma-BHC (Lindane)	ND		6.29	4.35		ug/Kg	☼	69	47 - 127

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 580-53710-3 MS
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-Chlordane	ND	F1	6.29	4.23		ug/Kg	☼	67	52 - 137
Heptachlor	ND		6.29	5.26		ug/Kg	☼	84	43 - 141
Heptachlor epoxide	ND		6.29	5.01		ug/Kg	☼	80	47 - 143
Methoxychlor	ND		6.29	6.48		ug/Kg	☼	103	56 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*46*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*66*		*60 - 128*
Tetrachloro-m-xylene	*67*		*35 - 129*
Tetrachloro-m-xylene	*70*		*35 - 129*

Lab Sample ID: 580-53710-3 MSD
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.026	J B	6.10	3.55		ug/Kg	☼	58	48 - 136	2	18
4,4'-DDE	0.023	J F1	6.10	3.04		ug/Kg	☼	50	50 - 138	2	17
4,4'-DDT	ND		6.10	3.67		ug/Kg	☼	60	53 - 132	3	20
Aldrin	0.061	J F1	6.10	3.26	F1	ug/Kg	☼	52	59 - 127	2	19
alpha-BHC	ND		6.10	3.42		ug/Kg	☼	56	48 - 132	2	17
alpha-Chlordane	ND		6.10	3.38		ug/Kg	☼	55	52 - 137	1	17
beta-BHC	0.28		6.10	3.24		ug/Kg	☼	48	45 - 122	10	18
delta-BHC	0.13		6.10	3.08		ug/Kg	☼	48	27 - 124	4	19
Dieldrin	ND		6.10	3.58		ug/Kg	☼	59	53 - 145	1	18
Endosulfan I	ND	F1	6.10	3.51		ug/Kg	☼	58	57 - 140	3	19
Endosulfan II	ND	F1	6.10	3.15	F1	ug/Kg	☼	52	58 - 144	3	19
Endosulfan sulfate	ND		6.10	3.47		ug/Kg	☼	57	55 - 125	3	18
Endrin	ND		6.10	3.53		ug/Kg	☼	58	51 - 143	1	18
Endrin aldehyde	ND	F1	6.10	2.50	F1	ug/Kg	☼	41	45 - 130	6	21
Endrin ketone	0.25	B	6.10	3.53		ug/Kg	☼	54	53 - 139	6	17
gamma-BHC (Lindane)	ND	F1	6.10	ND	F1	ug/Kg	☼	0	47 - 127	NC	17
gamma-Chlordane	0.10	J	6.10	3.73		ug/Kg	☼	59	52 - 137	1	17
Heptachlor	ND		6.10	3.21		ug/Kg	☼	53	43 - 141	2	18
Heptachlor epoxide	0.15	B	6.10	3.66		ug/Kg	☼	57	47 - 143	2	17
Methoxychlor	ND		6.10	3.72		ug/Kg	☼	61	56 - 137	1	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*52*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*54*	*X*	*60 - 128*
Tetrachloro-m-xylene	*42*		*35 - 129*
Tetrachloro-m-xylene	*52*		*35 - 129*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 580-53710-3 MSD
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		6.10	5.02		ug/Kg	☼	82	48 - 136	3	18
4,4'-DDE	ND		6.10	5.01		ug/Kg	☼	82	50 - 138	6	17
4,4'-DDT	ND		6.10	5.19		ug/Kg	☼	85	53 - 132	5	20
Aldrin	ND		6.10	4.31		ug/Kg	☼	71	59 - 127	5	19
alpha-BHC	ND		6.10	4.80		ug/Kg	☼	79	48 - 132	12	17
alpha-Chlordane	ND	F1	6.10	3.83		ug/Kg	☼	63	52 - 137	8	17
beta-BHC	ND		6.10	3.81		ug/Kg	☼	62	45 - 122	9	18
delta-BHC	ND		6.10	4.82		ug/Kg	☼	79	27 - 124	2	19
Dieldrin	ND		6.10	4.78		ug/Kg	☼	78	53 - 145	9	18
Endosulfan I	ND		6.10	4.56		ug/Kg	☼	75	57 - 140	1	19
Endosulfan II	ND		6.10	4.73		ug/Kg	☼	78	58 - 144	4	19
Endosulfan sulfate	ND		6.10	4.72		ug/Kg	☼	77	55 - 125	2	18
Endrin	ND		6.10	5.32		ug/Kg	☼	87	51 - 143	4	18
Endrin aldehyde	ND		6.10	5.30		ug/Kg	☼	87	45 - 130	10	21
Endrin ketone	ND		6.10	5.84		ug/Kg	☼	96	53 - 139	1	17
gamma-BHC (Lindane)	ND		6.10	4.55		ug/Kg	☼	75	47 - 127	5	17
gamma-Chlordane	ND	F1	6.10	ND	F1	ug/Kg	☼	0	52 - 137	NC	17
Heptachlor	ND		6.10	4.78		ug/Kg	☼	78	43 - 141	10	18
Heptachlor epoxide	ND		6.10	5.14		ug/Kg	☼	84	47 - 143	3	17
Methoxychlor	ND		6.10	6.46		ug/Kg	☼	106	56 - 137	0	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*46*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*60*		*60 - 128*
Tetrachloro-m-xylene	*64*		*35 - 129*
Tetrachloro-m-xylene	*66*		*35 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-202233/9-A
Matrix: Solid
Analysis Batch: 204009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.050	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1221	ND		1.1	0.34	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1232	ND		1.1	0.22	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1242	ND		1.0	0.21	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1248	ND		1.1	0.16	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1254	ND		1.0	0.090	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1260	ND		1.0	0.13	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1262	ND		1.0	0.19	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1268	ND		1.0	0.21	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
Polychlorinated biphenyls, Total	ND		1.1	0.34	ug/Kg		10/01/15 12:32	10/22/15 15:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*50 - 140*	*10/01/15 12:32*	*10/22/15 15:56*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 580-202233/9-A
Matrix: Solid
Analysis Batch: 204009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202233

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		45 - 135	10/01/15 12:32	10/22/15 15:56	1

Lab Sample ID: LCS 580-202233/12-A
Matrix: Solid
Analysis Batch: 204009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202233

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			25.0	15.5		ug/Kg		62	40 - 140		
PCB-1260			25.0	16.6		ug/Kg		66	60 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	73		50 - 140
Tetrachloro-m-xylene	57		45 - 135

Lab Sample ID: LCSD 580-202233/13-A
Matrix: Solid
Analysis Batch: 204009

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202233

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			25.0	15.7		ug/Kg		63	40 - 140	7	20
PCB-1260			25.0	15.8		ug/Kg		63	60 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	68		50 - 140
Tetrachloro-m-xylene	58		45 - 135

Lab Sample ID: MB 580-202920/1-A
Matrix: Solid
Analysis Batch: 203668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.050	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1221	ND		1.1	0.34	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1232	ND		1.1	0.22	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1242	ND		1.0	0.21	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1248	ND		1.1	0.16	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1254	ND		1.0	0.090	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1260	ND		1.0	0.13	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1262	ND		1.0	0.19	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1268	ND		1.0	0.21	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
Polychlorinated biphenyls, Total	ND		1.1	0.34	ug/Kg		10/09/15 14:01	10/18/15 15:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		50 - 140	10/09/15 14:01	10/18/15 15:13	1
Tetrachloro-m-xylene	51		45 - 135	10/09/15 14:01	10/18/15 15:13	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 580-202920/4-A
Matrix: Solid
Analysis Batch: 203668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202920

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			100	53.0		ug/Kg		53	40 - 140		
PCB-1260			100	62.2		ug/Kg		62	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*50 - 140*
Tetrachloro-m-xylene	*50*		*45 - 135*

Lab Sample ID: LCSD 580-202920/5-A
Matrix: Solid
Analysis Batch: 203668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202920

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			100	52.3		ug/Kg		52	40 - 140	1	20
PCB-1260			100	63.1		ug/Kg		63	60 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*50 - 140*
Tetrachloro-m-xylene	*53*		*45 - 135*

Lab Sample ID: 580-53710-3 MS
Matrix: Solid
Analysis Batch: 203668

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		126	68.4		ug/Kg	☼	54	40 - 140		
PCB-1260	ND	F1 F2	126	64.3	F1	ug/Kg	☼	51	60 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*50 - 140*
Tetrachloro-m-xylene	*51*		*45 - 135*

Lab Sample ID: 580-53710-3 MSD
Matrix: Solid
Analysis Batch: 203668

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		125	69.3	F2	ug/Kg	☼	55	40 - 140	35	20
PCB-1260	ND	F1 F2	125	174	E F1 F2	ug/Kg	☼	139	60 - 130	97	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*50 - 140*
Tetrachloro-m-xylene	*53*		*45 - 135*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-202248/1-A
Matrix: Solid
Analysis Batch: 202323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	3.6	mg/Kg		10/01/15 13:31	10/02/15 18:34	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		10/01/15 13:31	10/02/15 18:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*10/01/15 13:31*	*10/02/15 18:34*	*1*

Lab Sample ID: LCS 580-202248/2-A
Matrix: Solid
Analysis Batch: 202323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202248

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			500	467		mg/Kg		93	70 - 125		
Motor Oil (>C24-C36)			502	507		mg/Kg		101	64 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*90*		*50 - 150*

Lab Sample ID: LCSD 580-202248/3-A
Matrix: Solid
Analysis Batch: 202323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202248

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			500	451		mg/Kg		90	70 - 125	4	16
Motor Oil (>C24-C36)			502	495		mg/Kg		99	64 - 127	2	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*

Lab Sample ID: 580-53710-1 DU
Matrix: Solid
Analysis Batch: 202323

Client Sample ID: MW-10-1.5
Prep Type: Total/NA
Prep Batch: 202248

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
#2 Diesel (C10-C24)	36			38.7		mg/Kg	☼			6	35
Motor Oil (>C24-C36)	150			164		mg/Kg	☼			7	35

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
o-Terphenyl	*73*		*50 - 150*

Lab Sample ID: MB 580-203017/1-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	3.6	mg/Kg		10/11/15 08:58	10/12/15 17:26	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		10/11/15 08:58	10/12/15 17:26	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-203017/1-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203017

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	10/11/15 08:58	10/12/15 17:26	1

Lab Sample ID: LCS 580-203017/2-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203017

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			500	464		mg/Kg		93	70 - 125		
Motor Oil (>C24-C36)			502	483		mg/Kg		96	64 - 127		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	91		50 - 150

Lab Sample ID: LCSD 580-203017/3-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203017

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			500	477		mg/Kg		95	70 - 125	3	16
Motor Oil (>C24-C36)			502	500		mg/Kg		100	64 - 127	3	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	91		50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-203044/19-A
Matrix: Solid
Analysis Batch: 203150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		15	15	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Antimony	ND		0.10	0.021	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Arsenic	ND		0.25	0.090	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Barium	ND		0.25	0.039	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Cadmium	ND		0.10	0.0095	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Chromium	ND		0.25	0.032	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Copper	ND		0.20	0.049	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Lead	ND		0.25	0.024	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Magnesium	ND		50	1.3	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Nickel	ND		0.25	0.041	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Silver	ND		0.10	0.0060	mg/Kg		10/12/15 08:59	10/13/15 02:38	5
Zinc	ND		2.5	0.56	mg/Kg		10/12/15 08:59	10/13/15 02:38	5

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-203044/20-A
Matrix: Solid
Analysis Batch: 203150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	500	499		mg/Kg		100	80 - 120
Antimony	150	146		mg/Kg		97	80 - 120
Arsenic	200	196		mg/Kg		98	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Cadmium	5.00	5.07		mg/Kg		101	80 - 120
Chromium	20.0	19.0		mg/Kg		95	80 - 120
Copper	25.0	23.7		mg/Kg		95	80 - 120
Lead	50.0	46.7		mg/Kg		93	80 - 120
Magnesium	1000	992		mg/Kg		99	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Silver	30.0	27.5		mg/Kg		92	80 - 120
Zinc	200	188		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 580-203044/21-A
Matrix: Solid
Analysis Batch: 203150

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203044

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	500	503		mg/Kg		101	80 - 120	1	20
Antimony	150	146		mg/Kg		97	80 - 120	0	20
Arsenic	200	196		mg/Kg		98	80 - 120	0	20
Barium	200	201		mg/Kg		101	80 - 120	0	20
Cadmium	5.00	5.01		mg/Kg		100	80 - 120	1	20
Chromium	20.0	19.0		mg/Kg		95	80 - 120	0	20
Copper	25.0	23.7		mg/Kg		95	80 - 120	0	20
Lead	50.0	46.7		mg/Kg		93	80 - 120	0	20
Magnesium	1000	984		mg/Kg		98	80 - 120	1	20
Nickel	50.0	48.2		mg/Kg		96	80 - 120	0	20
Silver	30.0	27.6		mg/Kg		92	80 - 120	0	20
Zinc	200	187		mg/Kg		94	80 - 120	0	20

Lab Sample ID: 580-53710-3 MS
Matrix: Solid
Analysis Batch: 203150

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA
Prep Batch: 203044

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	29000		628	37600	4	mg/Kg	☼	1422	80 - 120
Antimony	0.84		188	178		mg/Kg	☼	94	80 - 120
Arsenic	16		251	267		mg/Kg	☼	100	80 - 120
Barium	210		251	486		mg/Kg	☼	112	80 - 120
Cadmium	0.17		6.28	6.65		mg/Kg	☼	103	80 - 120
Chromium	24	F1	25.1	53.9	F1	mg/Kg	☼	121	80 - 120
Copper	23		31.4	56.6		mg/Kg	☼	105	80 - 120
Lead	22		62.8	82.7		mg/Kg	☼	96	80 - 120
Magnesium	6800		1260	9440	4	mg/Kg	☼	209	80 - 120
Nickel	21		62.8	86.8		mg/Kg	☼	104	80 - 120
Silver	0.014	J	37.7	36.1		mg/Kg	☼	96	80 - 120
Zinc	76		251	325		mg/Kg	☼	99	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-53710-3 MSD
Matrix: Solid
Analysis Batch: 203150

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA
Prep Batch: 203044

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	29000		622	36300	4	mg/Kg	☼	1235	80 - 120	3	20
Antimony	0.84		187	172		mg/Kg	☼	91	80 - 120	4	20
Arsenic	16		249	261		mg/Kg	☼	98	80 - 120	2	20
Barium	210		249	480		mg/Kg	☼	111	80 - 120	1	20
Cadmium	0.17		6.22	6.34		mg/Kg	☼	99	80 - 120	5	20
Chromium	24	F1	24.9	51.5		mg/Kg	☼	112	80 - 120	5	20
Copper	23		31.1	55.5		mg/Kg	☼	103	80 - 120	2	20
Lead	22		62.2	80.3		mg/Kg	☼	93	80 - 120	3	20
Magnesium	6800		1240	9230	4	mg/Kg	☼	194	80 - 120	2	20
Nickel	21		62.2	85.3		mg/Kg	☼	103	80 - 120	2	20
Silver	0.014	J	37.3	34.4		mg/Kg	☼	92	80 - 120	5	20
Zinc	76		249	316		mg/Kg	☼	97	80 - 120	3	20

Lab Sample ID: 580-53710-3 DU
Matrix: Solid
Analysis Batch: 203150

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA
Prep Batch: 203044

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	29000		29300		mg/Kg	☼	2	20
Antimony	0.84		0.833		mg/Kg	☼	0.8	20
Arsenic	16		15.9		mg/Kg	☼	0.4	20
Barium	210		218		mg/Kg	☼	6	20
Cadmium	0.17		0.178		mg/Kg	☼	3	20
Chromium	24	F1	23.9		mg/Kg	☼	1	20
Copper	23		23.4		mg/Kg	☼	0.2	20
Lead	22		22.5		mg/Kg	☼	1	20
Magnesium	6800		6840		mg/Kg	☼	0.3	20
Nickel	21		21.1		mg/Kg	☼	0.8	20
Silver	0.014	J	0.0155	J	mg/Kg	☼	8	20
Zinc	76		75.4		mg/Kg	☼	0.6	20

Lab Sample ID: MB 580-203045/17-A
Matrix: Solid
Analysis Batch: 203150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		15	15	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Antimony	ND		0.10	0.021	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Arsenic	ND		0.25	0.090	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Barium	ND		0.25	0.039	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Cadmium	ND		0.10	0.0095	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Chromium	ND		0.25	0.032	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Copper	ND		0.20	0.049	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Lead	ND		0.25	0.024	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Magnesium	ND		50	1.3	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Nickel	ND		0.25	0.041	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Silver	ND		0.10	0.0060	mg/Kg		10/12/15 09:04	10/13/15 05:26	5
Zinc	ND		2.5	0.56	mg/Kg		10/12/15 09:04	10/13/15 05:26	5

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-203045/18-A
Matrix: Solid
Analysis Batch: 203150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	500	496		mg/Kg		99	80 - 120
Antimony	150	146		mg/Kg		97	80 - 120
Arsenic	200	198		mg/Kg		99	80 - 120
Barium	200	204		mg/Kg		102	80 - 120
Cadmium	5.00	4.97		mg/Kg		99	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Copper	25.0	23.8		mg/Kg		95	80 - 120
Lead	50.0	47.1		mg/Kg		94	80 - 120
Magnesium	1000	990		mg/Kg		99	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Silver	30.0	27.8		mg/Kg		93	80 - 120
Zinc	200	188		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 580-203045/19-A
Matrix: Solid
Analysis Batch: 203150

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203045

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	500	492		mg/Kg		98	80 - 120	1	20
Antimony	150	145		mg/Kg		97	80 - 120	1	20
Arsenic	200	197		mg/Kg		98	80 - 120	1	20
Barium	200	202		mg/Kg		101	80 - 120	1	20
Cadmium	5.00	4.94		mg/Kg		99	80 - 120	1	20
Chromium	20.0	19.4		mg/Kg		97	80 - 120	1	20
Copper	25.0	23.4		mg/Kg		94	80 - 120	2	20
Lead	50.0	46.8		mg/Kg		94	80 - 120	1	20
Magnesium	1000	986		mg/Kg		99	80 - 120	0	20
Nickel	50.0	48.6		mg/Kg		97	80 - 120	1	20
Silver	30.0	27.7		mg/Kg		92	80 - 120	0	20
Zinc	200	186		mg/Kg		93	80 - 120	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-202856/18-A
Matrix: Solid
Analysis Batch: 202893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0060	mg/Kg		10/09/15 07:31	10/09/15 09:59	1

Lab Sample ID: LCS 580-202856/19-A
Matrix: Solid
Analysis Batch: 202893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.163		mg/Kg		98	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-202856/20-A
Matrix: Solid
Analysis Batch: 202893

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202856

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.147		mg/Kg		88	80 - 120	10	20

Lab Sample ID: MB 580-203146/21-A
Matrix: Solid
Analysis Batch: 203205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0060	mg/Kg		10/13/15 07:02	10/13/15 10:57	1

Lab Sample ID: LCS 580-203146/22-A
Matrix: Solid
Analysis Batch: 203205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.152		mg/Kg		91	80 - 120

Lab Sample ID: LCSD 580-203146/23-A
Matrix: Solid
Analysis Batch: 203205

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203146

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.159		mg/Kg		95	80 - 120	5	20

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-202930/3
Matrix: Solid
Analysis Batch: 202930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			10/09/15 13:57	1
TOC Result 1	ND		2000	44	mg/Kg			10/09/15 13:57	1

Lab Sample ID: LCS 580-202930/4
Matrix: Solid
Analysis Batch: 202930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	4620	4590		mg/Kg		99	49 - 151

Lab Sample ID: LCSD 580-202930/5
Matrix: Solid
Analysis Batch: 202930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	4620	4740		mg/Kg		103	49 - 151	3	35

Method: 9060_PSEP - TOC (Puget Sound) (Continued)

Lab Sample ID: 580-53710-1 MS
Matrix: Solid
Analysis Batch: 202930

Client Sample ID: MW-10-1.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	740	J	113000	110000		mg/Kg		96	50 - 140

Lab Sample ID: 580-53710-1 MSD
Matrix: Solid
Analysis Batch: 202930

Client Sample ID: MW-10-1.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	740	J	119000	115000		mg/Kg		96	50 - 140	5	35

Lab Sample ID: 580-53710-1 DU
Matrix: Solid
Analysis Batch: 202930

Client Sample ID: MW-10-1.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon - Duplicates	740	J	809	J	mg/Kg		9	50
TOC Result 2	720	J	762	J	mg/Kg		5	
TOC Result 1	760	J	856	J	mg/Kg		12	

Lab Sample ID: MB 580-203147/3
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			10/12/15 14:37	1
TOC Result 1	ND		2000	44	mg/Kg			10/12/15 14:37	1

Lab Sample ID: LCS 580-203147/4
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	4620	4640		mg/Kg		100	49 - 151

Lab Sample ID: LCSD 580-203147/5
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	4620	4620		mg/Kg		100	49 - 151	0	35

Method: 9060_PSEP - TOC (Puget Sound) (Continued)

Lab Sample ID: 580-53710-3 MS
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates	740	J	111000	109000		mg/Kg		97	50 - 140		

Lab Sample ID: 580-53710-3 MSD
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	740	J	92700	89600		mg/Kg		96	50 - 140	19	35

Lab Sample ID: 580-53710-3 DU
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon - Duplicates	740	J	771	J	mg/Kg		3	50
TOC Result 2	730	J	765	J	mg/Kg		4	
TOC Result 1	760	J	776	J	mg/Kg		3	

Method: D 2216 - Percent Moisture

Lab Sample ID: 580-53710-3 DU
Matrix: Solid
Analysis Batch: 202941

Client Sample ID: MW-10-3.5-A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	78		79		%		0.4	20
Percent Moisture	22		21		%		1	20

Lab Sample ID: 580-53710-7 DU
Matrix: Solid
Analysis Batch: 202941

Client Sample ID: MW-10-23-A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	87		81		%		7	20
Percent Moisture	13		19	F3	%		39	20

Client Sample ID: MW-10-1.5
Date Collected: 09/28/15 11:50
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	202930	10/09/15 14:30	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	202340	10/02/15 10:39	CTT	TAL SEA

Client Sample ID: MW-10-1.5
Date Collected: 09/28/15 11:50
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-1
Matrix: Solid
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202332	10/02/15 10:04	DGY	TAL SEA
Total/NA	Analysis	8260C		1	202343	10/02/15 17:14	CJ	TAL SEA
Total/NA	Prep	3550B			202235	10/01/15 14:32	CTT	TAL SEA
Total/NA	Analysis	8270D		1	203587	10/17/15 00:13	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:42	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/06/15 19:12	TL1	TAL SEA
Total/NA	Prep	3550B			202233	10/01/15 14:54	S1X	TAL SEA
Total/NA	Analysis	8081B		1	205885	11/18/15 04:48	DMW	TAL SEA
Total/NA	Prep	3550B			202233	10/01/15 14:54	S1X	TAL SEA
Total/NA	Analysis	8082A		1	204009	10/22/15 17:53	DFE	TAL SEA
Total/NA	Prep	3546			202248	10/01/15 13:31	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202323	10/02/15 19:28	NMI	TAL SEA
Total/NA	Prep	3050B			203045	10/12/15 09:04	PAB	TAL SEA
Total/NA	Analysis	6020A		5	203150	10/13/15 06:43	FCW	TAL SEA
Total/NA	Prep	7471A			202856	10/09/15 07:31	MKN	TAL SEA
Total/NA	Analysis	7471A		1	202893	10/09/15 10:45	FCW	TAL SEA

Client Sample ID: MW-10-3.5-A
Date Collected: 09/28/15 12:18
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203147	10/12/15 14:45	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	202941	10/09/15 17:13	DGY	TAL SEA

Client Sample ID: MW-10-3.5-A
Date Collected: 09/28/15 12:18
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-3
Matrix: Solid
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	203054	10/12/15 14:28	K1K	TAL SEA

Client Sample ID: MW-10-3.5-A
Date Collected: 09/28/15 12:18
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-3
Matrix: Solid
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C	RA	1	204000	10/22/15 12:48	JMB	TAL SEA
Total/NA	Prep	3550B			202944	10/09/15 18:44	KZ1	TAL SEA
Total/NA	Analysis	8270D		1	203587	10/16/15 21:40	ERB	TAL SEA
Total/NA	Prep	5035			203085	10/12/15 12:37	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	203132	10/12/15 20:01	TL1	TAL SEA
Total/NA	Prep	3550B			202920	10/09/15 14:01	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	205885	11/18/15 05:23	DMW	TAL SEA
Total/NA	Prep	3550B			202920	10/09/15 14:01	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	203709	10/19/15 18:18	DFE	TAL SEA
Total/NA	Prep	3550B			202920	10/09/15 14:01	KZ1	TAL SEA
Total/NA	Analysis	8082A		1	203668	10/18/15 15:30	DFE	TAL SEA
Total/NA	Prep	3546			203017	10/11/15 08:58	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203114	10/12/15 18:19	NMI	TAL SEA
Total/NA	Prep	3050B			203044	10/12/15 08:59	PAB	TAL SEA
Total/NA	Analysis	6020A		5	203150	10/13/15 02:56	FCW	TAL SEA
Total/NA	Prep	7471A			203146	10/13/15 07:02	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203205	10/13/15 11:28	FCW	TAL SEA

Client Sample ID: MW-10-23-A
Date Collected: 09/28/15 13:30
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203147	10/12/15 15:00	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	202941	10/09/15 17:13	DGY	TAL SEA

Client Sample ID: MW-10-23-A
Date Collected: 09/28/15 13:30
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-7
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	203054	10/12/15 15:01	K1K	TAL SEA
Total/NA	Prep	5035	RA		203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C	RA	1	204000	10/22/15 13:21	JMB	TAL SEA
Total/NA	Prep	3550B			202944	10/09/15 18:44	KZ1	TAL SEA
Total/NA	Analysis	8270D		1	203587	10/16/15 22:06	ERB	TAL SEA
Total/NA	Prep	5035			203085	10/12/15 12:37	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	203132	10/12/15 20:34	TL1	TAL SEA
Total/NA	Prep	3550B			202920	10/09/15 14:01	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	205885	11/18/15 08:33	DMW	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53710-1

Client Sample ID: MW-10-23-A

Date Collected: 09/28/15 13:30
Date Received: 09/28/15 15:40

Lab Sample ID: 580-53710-7

Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			202920	10/09/15 14:01	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	203709	10/19/15 19:09	DFE	TAL SEA
Total/NA	Prep	3550B			202920	10/09/15 14:01	KZ1	TAL SEA
Total/NA	Analysis	8082A		1	203668	10/18/15 16:20	DFE	TAL SEA
Total/NA	Prep	3546			203017	10/11/15 08:58	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203114	10/12/15 18:37	NMI	TAL SEA
Total/NA	Prep	3050B			203044	10/12/15 08:59	PAB	TAL SEA
Total/NA	Analysis	6020A		5	203150	10/13/15 03:32	FCW	TAL SEA
Total/NA	Prep	7471A			203146	10/13/15 07:02	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203205	10/13/15 11:30	FCW	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53710-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	02-28-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53710-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-53710-1	MW-10-1.5	Solid	09/28/15 11:50	09/28/15 15:40
580-53710-3	MW-10-3.5-A	Solid	09/28/15 12:18	09/28/15 15:40
580-53710-7	MW-10-23-A	Solid	09/28/15 13:30	09/28/15 15:40

Soil

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

580-53710 Chain of Custody

Chain of Custody Record

Client	Client Contact		Chain of Custody Number
GeoPro LLC	Richard Kent	9-28-15	23679
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
PO Box 26	360-907-5648		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Battle Ground / WA / 98604	GeoPro	Robert Breer	
Project Name and Location (State)	**Billing Contact**		
Oseran Properties			
Contract/Purchase Order/Quote No.			
ECSI #1007			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	6020A-Lead	NWTPH-Dx	8081B	9045C	9060-PSEP	8082A	7471A	8270D (MOD)	8260C (MOD)	8260C (VOC)	NWTPH-Gx-MS	Special Instructions/ Conditions of Receipt
MW-10-1.5	9-28-15	1150				X							X	X	X	X	X	X	X	X	X	X	X	3 containers*
MW-10-26	9-28-15	1348				X							X	X	X	X	X	X	X	X	X	X	X	3 containers*

*Insufficient sample to fill 2nd 8oz jar.

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☒ Yes ☐ No Cooler Temp: ____	☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Normal

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	Richard Kent	9-28-15	1520	Jessica Morgan	9/28/15	1520
2.	Jessica Morgan	9/28/15	1540		9/28/15	1540
3.						

Comments

11.8

R/P-L

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☒ Short Hold

Archive

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
Geo Pro LLC	Richard Kent	9-28-15	23680
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
PO Box 26	360-907-5648		
City / State / Zip Code	**Sampler**	**Lab Contact**	
Battle Ground / WA / 98604	Geo Pro	Robert Greer	
Project Name and Location (State)	**Billing Contact**		
Oseran Properties			
Contract/Purchase Order/Quote No.			
ECSI #1007			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Special Instructions/ Conditions of Receipt
MW-10-3.5-A	9-28-15	1218				X							Short hold
MW-10-8-A	9-28-15	1280				X							Short Hold
MW-10-13-A	9-28-15	1255				X							Short Hold
MW-10-17-A	9-28-15	1322				X							Short Hold
MW-10-23-A	9-28-15	1330				X							Short Hold

Analysis (Attach list if more space is needed)

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☒ Yes ☐ No Cooler Temp: ____	☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Normal

QC Requirements (Specify)

	Signature/Print	Date	Time
1. Relinquished By		9-28-15	1520
2. Relinquished By	Jessica Morgan	9/28/15	1540
3. Relinquished By			
1. Received By	Jessica Morgan	9/28/15	1520
2. Received By		9/28/15	1540
3. Received By			

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Rob Greer
TestAmerica

12 ANALYTICAL METHODS

LIMITS! must meet

Table 4 - Analytical Methods
(SLV, MCL and PRG from DEQ Table 3-1 "Screening Level Values for Soil/Stormwater Sediment, Stormwater, Groundwater, and Surface Water", Rev. 7-16-07).

SOIL

as reported by TA ↓ — criteria

Method	Analyte	RL	SLV	MCL	PRG
6020A	Aluminum	15.0 mg/kg			
	Antimony	0.100 mg/kg	64 mg/kg		
	Arsenic	0.250 mg/kg	7 mg/kg		
	Barium	0.250 mg/kg			
	Cadmium	0.100 mg/kg	1.00 mg/kg		
	Chromium	0.250 mg/kg	111 mg/kg		
	Copper	0.200 mg/kg	149 mg/kg		
	Lead	0.250 mg/kg	17 mg/kg		
	Magnesium	50.0 mg/kg			
	Nickel	0.250 mg/kg	48.6 mg/kg		
	Silver	0.100 mg/kg	5 mg/kg		
	Zinc	2.50 mg/kg	459 mg/kg		
NWTPH-Gx	Gasoline	4.00 mg/kg			
NWTPH-Dx	#2 diesel	25.0 mg/kg			
	Motor oil	50.0 mg/kg			
8260C	1,1,1,2-Tetrachloroethane	40.0 µg/kg			
	1,1,1-Trichloroethane	40.0 µg/kg			
	1,1,2,2-Tetrachloroethane	10.0 µg/kg			
	1,1,2-Trichloroethane	12.0 µg/kg			
	1,1-Dichloroethane	40.0 µg/kg			
	1,2,3-Trichloropropane	40.0 µg/kg			
	1,2-Dibromoethane	16.0 µg/kg			
	1,2-Dichloroethane	16.0 µg/kg			
	1,2-Dichloropropane	12.0 µg/kg			
	2-Butanone	400 µg/kg			
	2-Chloroethyl vinyl ether	200 µg/kg			
	2-Hexanone	200 µg/kg			
	4-Methyl-2-pentanone	200 µg/kg			
	Acetone	800 µg/kg			
	Acrolein	1200 µg/kg			
	Acrylonitrile	400 µg/kg			
	Benzene	16.0 µg/kg			
	Bromochloromethane	40.0 µg/kg			
	Bromodichloromethane	40.0 µg/kg			
	Bromoform	40.0 µg/kg			
	Bromomethane	140 µg/kg			
	Carbon disulfide	40.0 µg/kg			
	Carbon tetrachloride	20.0 µg/kg			
	Chlorobenzene	40.0 µg/kg			
	Chlorodibromomethane	20.0 µg/kg			
	Chloroethane	400 µg/kg			

Oseran Properties

Method	Analyte	RL	SLV	MCL	PRG
	Chloroform	40.0 µg/kg			
	Chloromethane	60.0 µg/kg			
	cis-1,2-Dichloroethene	40.0 µg/kg			
	cis-1,3-Dichloropropene	16.0 µg/kg			
	Dibromomethane	60.0 µg/kg			
	Dichlorodifluoromethane	40.0 µg/kg			
	Ethylbenzene	40.0 µg/kg			
	Iodomethane	200 µg/kg			
	Isopropylbenzene	40.0 µg/kg			
	Methyl tert-butyl ether	40.0 µg/kg			
	Methylene Chloride	25.0 µg/kg			
	m-Xylene & p-Xylene	40.0 µg/kg			
	o-Xylene	40.0 µg/kg			
	Styrene	40.0 µg/kg			
	t-Butylbenzene	40.0 µg/kg			
	Tetrachloroethene	20.0 µg/kg	500 µg/kg		
	Toluene	40.0 µg/kg			
	trans-1,2-Dichloroethene	40.0 µg/kg			
	trans-1,3-Dichloropropene	40.0 µg/kg			
	trans-1,4-Dichloro-2-butene	200 µg/kg			
	Trichloroethene	24.0 µg/kg	2100 µg/kg		
	Trichlorofluoromethane	40.0 µg/kg			
	Vinyl acetate	200 µg/kg			
	Vinyl chloride	16.0 µg/kg			
8081B	2,4'-DDD	0.2 µg/kg (low level extraction)	0.33 µg/kg (sum 2,4' and 4,4' isomers)		
	2,4'-DDE	0.2 µg/kg (low level extraction)	0.33 µg/kg (sum 2,4' and 4,4' isomers)		
	2,4'-DDT	0.2 µg/kg (low level extraction)	0.33 µg/kg (sum 2,4' and 4,4' isomers)		
	4,4'-DDD	0.2 µg/kg (low level extraction)			
	4,4'-DDE	0.2 µg/kg (low level extraction)			
	4,4'-DDT	0.2 µg/kg (low level extraction)			
	Aldrin	1.00 µg/kg	40 µg/kg		
	alpha-BHC	1.00 µg/kg			
	alpha-Chlordane	1.00 µg/kg			
	beta-BHC	1.00 µg/kg			
	Chlordane (technical)	1.0 µg/kg (low level extraction, MDL 0.14 µg/kg)[1]	0.37 µg/kg		
	cis-Nonachlor	2.00 µg/kg			
	delta-BHC	1.00 µg/kg			
	Dieldrin	0.2 µg/kg (low level extraction, MDL 0.0118 µg/kg)[1]	0.0081 µg/kg		
	Endosulfan I	1.00 µg/kg			

Method	Analyte	RL	SLV	MCL	PRG
	Endosulfan II	2.00 µg/kg			
	Endosulfan sulfate	2.00 µg/kg			
	Endrin	2.00 µg/kg	207 µg/kg		
	Endrin aldehyde	2.00 µg/kg			
	Endrin ketone	2.00 µg/kg			
	gamma-BHC (Lindane)	1.00 µg/kg	4.9 µg/kg		
	gamma-Chlordane	1.00 µg/kg			
	Heptachlor	2.00 µg/kg	10 µg/kg		
	Heptachlor epoxide	1.00 µg/kg	16 µg/kg		
	Methoxychlor	10.0 µg/kg			
	oxy-Chlordane	2.00 µg/kg			
	Toxaphene	100 µg/kg			
	trans-Nonachlor	2.00 µg/kg			
9045C	pH				
9060_PSEP	Total Organic Carbon	2000 mg/kg			
8082A	PCB-1016	1.0 µg/kg (low level extraction)	530 µg/kg		
	PCB-1221	1.1 µg/kg (low level extraction)			
	PCB-1232	1.1 µg/kg (low level extraction)			
	PCB-1242	1.0 µg/kg (low level extraction)			
	PCB-1248	1.1 µg/kg (low level extraction)	1500 µg/kg		
	PCB-1254	1.0 µg/kg (low level extraction)	300 µg/kg		
	PCB-1260	1.0 µg/kg (low level extraction)	200 µg/kg		
	PCB-1262	1.0 µg/kg (low level extraction)			
	PCB-1016	1.0 µg/kg (low level extraction)			
	Polychlorinated biphenyls, Total	1.1 µg/kg (low level extraction, MDL 0.34 µg/kg)[1]	0.39 µg/kg		
6010C	SPLP Arsenic	0.0600 mg/L			
	SPLP Barium	0.0100 mg/L			
	SPLP Lead	0.0300 mg/L			
7471A	Mercury	0.0200 mg/kg	70 µg/kg		
8270D	Naphthalene	20.0 µg/kg	561 µg/kg		
	2-Methylnaphthalene	20.0 µg/kg	200 µg/kg		
	Dimethyl phthalate	100 µg/kg	600 µg/kg		
	Acenaphthylene	20.0 µg/kg	200 µg/kg		
	Acenaphthene	20.0 µg/kg	300 µg/kg		
	Diethyl phthalate	200 µg/kg	600 µg/kg		
	Fluorene	20.0 µg/kg	536 µg/kg		
	Phenanthrene	20.0 µg/kg	1170 µg/kg		
	Anthracene	20.0 µg/kg	845 µg/kg		
	Di-n-butyl phthalate	50 µg/kg (low level extraction)	60 µg/kg		

Method	Analyte	RL	SLV	MCL	PRG
	Fluoranthene	20.0 µg/kg	2230 µg/kg		
	Pyrene	20.0 µg/kg	1520 µg/kg		
	Butyl benzyl phthalate	200 µg/kg			
	Benzo[a]anthracene	20.0 µg/kg			
	Chrysene	25.0 µg/kg	1290 µg/kg		
	Bis(2-ethylhexyl) phthalate	60 µg/kg (low level extraction)	330 µg/kg		
	Di-n-octyl phthalate	500 µg/kg			
	Benzo[b]fluoranthene	20.0 µg/kg			
	Benzo[k]fluoranthene	25.0 µg/kg	13000 µg/kg		
	Benzo[a]pyrene	30.0 µg/kg	1450 µg/kg		
	Indeno[1,2,3-cd]pyrene	40.0 µg/kg	100 µg/kg		
	Dibenz(a,h)anthracene	40.0 µg/kg	1300 µg/kg		
	Benzo[g,h,i]perylene	25.0 µg/kg	300 µg/kg		

GROUNDWATER

Method	Analyte	RL	SLV	MCL	PRG
6020A (Total)	Aluminum	0.100 mg/L		0.05-0.2 mg/L	
	Antimony	0.000400 mg/L		0.006 mg/L	
	Arsenic	0.00100 mg/L			0.000045 mg/L
	Barium	0.00120 mg/L			
	Cadmium	0.000400 mg/L	0.000094 mg/L (ecological)		
	Chromium	0.000400 mg/L		0.100 mg/L	
	Copper	0.00200 mg/L	0.0027 mg/L (ecological)		
	Lead	0.000400 mg/L	0.00054 mg/L (ecological)		
	Magnesium	10.0 mg/L			
	Nickel	0.00300 mg/L	0.016 mg/L (ecological)		
	Silver	0.000400 mg/L	0.00012 mg/L (ecological)		
	Zinc	0.00700 mg/L	0.036 mg/L (ecological)		
8270D	Naphthalene	0.400 µg/L	0.2 µg/L		
	2-Methylnaphthalene	0.200 µg/L	0.2 µg/L		
	Dimethyl phthalate	0.400 µg/L			
	Acenaphthylene	0.0800 µg/L	0.2 µg/L		
	Acenaphthene	0.100 µg/L	0.2 µg/L		
	Diethyl phthalate	0.400 µg/L			
	Fluorene	0.0600 µg/L	0.2 µg/L		
	Phenanthrene	0.0800 µg/L	0.2 µg/L		
	Anthracene	0.0400 µg/L	0.2 µg/L		
	Di-n-butyl phthalate	0.400 µg/L			

Method	Analyte	RL	SLV	MCL	PRG
	Fluoranthene	0.0500 µg/L			
	Pyrene	0.0600 µg/L	0.2 µg/L		
	Butyl benzyl phthalate	0.600 µg/L			
	Benzo[a]anthracene	0.0600 µg/L	0.018 µg/L		
	Chrysene	0.0400 µg/L	0.018 µg/L		
	Bis(2-ethylhexyl) phthalate	3.00 µg/L			
	Di-n-octyl phthalate	0.400 µg/L			
	Benzo[b]fluoranthene	0.0800 µg/L	0.018 µg/L		
	Benzo[k]fluoranthene	0.0600 µg/L	0.018 µg/L		
	Benzo[a]pyrene	0.0400 µg/L	0.018 µg/L		
	Indeno[1,2,3-cd]pyrene	0.0600 µg/L	0.018 µg/L		
	Dibenz(a,h)anthracene	0.0600 µg/L	0.018 µg/L		
	Benzo[g,h,i]perylene	0.0600 µg/L	0.2 µg/L		
NWTPH-Gx	Gasoline	0.0500 mg/L			
NWTPH-Dx	#2 Diesel	0.110 mg/L			
	Motor Oil	0.250 mg/L			
8260C	1,1,1,2-Tetrachloroethane	0.200 µg/L			2.5 µg/L
	1,1,1-Trichloroethane	0.200 µg/L	11 µg/L (ecological)		
	1,1,2,2-Tetrachloroethane	0.200 µg/L			0.33 µg/L
	1,1,2-Trichloroethane	0.200 µg/L			1.2 µg/L
	1,1-Dichloroethane	0.200 µg/L	47 µg/L (ecological)		
	1,2,3-Trichloropropane	0.200 µg/L (MDL 0.0500 µg/L)			0.0095 µg/L
	1,2-Dibromoethane	0.100 µg/L (MDL 0.0250 µg/L)			0.033 µg/L
	1,2-Dichloroethane	0.200 µg/L			0.73 µg/L
	1,2-Dichloropropane	0.200 µg/L			0.97 µg/L
	2-Butanone	15.0 µg/L			7100 µg/L
	2-Chloroethyl vinyl ether	6.00 µg/L			
	2-Hexanone	2.00 µg/L	99 µg/L (ecological)		
	4-Methyl-2-pentanone	5.00 µg/L	170 µg/L (ecological)		
	Acetone	2.00 µg/L	1500 µg/L (ecological)		
	Acrolein	5.00 µg/L (MDL 2.5 µg/L)			0.042 µg/L
	Acrylonitrile	5.00 µg/L (MDL 0.75 µg/L)			0.12 µg/L
	Benzene	0.200 µg/L			1.2 µg/L
	Bromochloromethane	0.200 µg/L			
	Bromodichloromethane	0.200 µg/L			1.1 µg/L
	Bromoform	0.500 µg/L			8.5 µg/L
	Bromomethane	1.00 µg/L			8.7 µg/L
	Carbon disulfide	0.200 µg/L	0.92 µg/L (ecological)		
	Carbon tetrachloride	0.200 µg/L			0.51 µg/L

Method	Analyte	RL	SLV	MCL	PRG
	Chlorobenzene	0.200 µg/L	50 µg/L (ecological)		
	Chlorodibromomethane	0.200 µg/L			0.79 µg/L
	Chloroethane	0.500 µg/L			23 µg/L
	Chloroform	0.200 µg/L (MDL 0.030 µg/L)			0.17 µg/L
	Chloromethane	0.300 µg/L			2.1 µg/L
	cis-1,2-Dichloroethene	0.200 µg/L	590 µg/L (ecological)		
	cis-1,3-Dichloropropene	0.500 µg/L (MDL 0.090 µg/L)	0.055 µg/L (ecological)		
	Dibromomethane	0.200 µg/L			61 µg/L
	Dichlorodifluoromethane	0.400 µg/L			390 µg/L
	Ethylbenzene	0.200 µg/L	7.3 µg/L (ecological)		
	Iodomethane	0.500 µg/L			
	Isopropylbenzene	0.500 µg/L			660 µg/L
	Methyl tert-butyl ether	0.200 µg/L			37 µg/L
	Methylene Chloride	0.500 µg/L			
	m-Xylene & p-Xylene	0.500 µg/L	1.8 µg/L (ecological)		
	o-Xylene	0.500 µg/L	13 µg/L (ecological)		
	Styrene	0.500 µg/L		100 µg/L	
	t-Butylbenzene	0.500 µg/L			
	Tetrachloroethene	0.500 µg/L (MDL 0.070 µg/L)			0.12 µg/L
	Toluene	0.200 µg/L	9.8 µg/L (ecological)		
	trans-1,2-Dichloroethene	0.200 µg/L			110 µg/L
	trans-1,3-Dichloropropene	0.200 µg/L	0.555 (ecological)		
	trans-1,4-Dichloro-2-butene	2.00 µg/L			7100 µg/L
	Trichloroethene	0.200 µg/L (MDL 0.025 µg/L)			0.17 µg/L
	Trichlorofluoromethane	0.500 µg/L			1300 µg/L
	Vinyl acetate	1.00 µg/L	16 µg/L (ecological)		
	Vinyl chloride	0.0200 µg/L (MDL 0.013 µg/L)			0.015 µg/L
8081B	2,4'-DDD	0.002 µg/L (low level extraction)	0.00031 µg/L (sum 2,4' and 4,4' isomers)		
	2,4'-DDE	0.002 µg/L (low level extraction)	0.00022 µg/L (sum 2,4' and 4,4' isomers)		
	2,4'-DDT	0.002 µg/L (low level extraction)	0.00022 µg/L (sum 2,4' and 4,4' isomers), total 0.2 µg/L		

Method	Analyte	RL	SLV	MCL	PRG
	4,4'-DDD	0.0200 µg/L			
	4,4'-DDE	0.0200 µg/L			
	4,4'-DDT	0.0200 µg/L			
	Aldrin	0.001 µg/L (low level extraction)	0.00005 µg/L		
	alpha-BHC	0.001 µg/L (low level extraction)	0.0049 µg/L		
	alpha-Chlordane	0.0100 µg/L			
	beta-BHC	0.002 µg/L (low level extraction)	0.017 µg/L		
	Chlordane (technical)	0.01 µg/L (low level extraction, MDL 0.0023 µg/L)	0.00081 µg/L		
	cis-Nonachlor	0.0200 µg/L	0.19 µg/L		
	delta-BHC	0.0100 µg/L			
	Dieldrin	0.002 µg/L (low level extraction, MDL 0.0003 µg/L)	0.000054 µg/L		
	Endosulfan I	0.0200 µg/L			
	Endosulfan II	0.0200 µg/L			
	Endosulfan sulfate	0.0200 µg/L	89 µg/L		
	Endrin	0.0200 µg/L	0.036 µg/L		
	Endrin aldehyde	0.0500 µg/L			
	Endrin ketone	0.0200 µg/L			
	gamma-BHC (Lindane)	0.0100 µg/L			0.052 µg/L
	gamma-Chlordane	0.0100 µg/L			
	Heptachlor	0.001 µg/L (low level extraction, MDL 0.0003 µg/L)	0.000079 µg/L		
	Heptachlor epoxide	0.001 µg/L (low level extraction, MDL 0.0003 µg/L)	0.000039 µg/L		
	Methoxychlor	0.100 µg/L			
	oxy-Chlordane	0.0200 µg/L			0.19 µg/L
	Toxaphene	0.1 µg/L (low level extraction, MDL 0.027 µg/L)	0.0002 µg/L (ecological)		
	trans-Nonachlor	0.0200 µg/L			
SM 450	pH	0.0100 SU			
SM 4310B	Total Organic Carbon	1.00 mg/L			
6020A (Dissolved)	Aluminum	0.100 mg/L			
	Antimony	0.000400 mg/L			
	Arsenic	0.00100 mg/L			

Method	Analyte	RL	SLV	MCL	PRG
	Barium	0.00120 mg/L			
	Cadmium	0.000400 mg/L			
	Chromium	0.000400 mg/L			
	Copper	0.00200 mg/L			
	Lead	0.000400 mg/L			
	Magnesium	10.0 mg/L			
	Nickel	0.00300 mg/L			
	Silver	0.000400 mg/L			
	Zinc	0.00700 mg/L			
8260B SIM	1,4-Dioxane	1.00 µg/L			
7470A (Total)	Mercury	0.000200 mg/L			

Table Notes: blank means no value available.
1 – Laboratory MDL shown for those analytes with low screening levels; low level and special cleanup methods will be used to obtain results at or below screening levels.

Login Sample Receipt Checklist

Client: GeoPro Geologic Services

Job Number: 580-53710-1

Login Number: 53710
List Number: 1
Creator: Svabik-Seror, Philip M

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-53747-1
Client Project/Site: Oseran Properties

For:
GeoPro Geologic Services
PO BOX 26
Battle Ground, Washington 98604

Attn: Richard Kent

Authorized for release by:
12/1/2015 3:55:23 PM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 580-53747-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-53747-1

Comments
No additional comments.

Receipt
The samples were received on 9/29/2015 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.8º C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

The following samples was activated (MW-9-19A, MW3-21A) /canceled (MW9-33) by the client on 10-8-15: MW-9-33 (580-53747-2), MW-9-19-A (580-53747-7) and MW-3-21-A (580-53747-14).

GC/MS VOA
Method(s) 8260C: The method blank for analytical batch 202343 and preparation batch 202332 contained Methylene chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 202343 was outside criteria for the following analyte(s): 2-Butanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 202343 recovered above the upper control limit for 1,1,1,2-Tetrachloroethane, Isopropylbenzene and t-Butylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-9-2 (580-53747-1), MW-9-33 (580-53747-2), MW-3-4.5 (580-53747-3), MW-3-1.5 (580-53747-4) and (CCV 580-202343/2).

Method(s) 8260C: The method blank for analytical batch 204000 and preparation batch 203073 and analytical batch 580-204000 contained Methylene chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-203054 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The following samples was prepared outside of the 48 hour preparation holding time due to laboratory error: MW-9-19-A (580-53747-7) and MW-3-21-A (580-53747-14). Samples are qualified and reported.

Method(s) NWTPH-Gx: The method blank for preparation batch 202577 and analytical batch 202593 contained Gasoline above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) NWTPH-Gx: The following samples were analyzed outside of analytical holding time due to laboratory error: MW-9-19-A (580-53747-7) and MW-3-21-A (580-53747-14). Samples have been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The method blank for preparation batch 202235 and analytical batch 203464 contained Diethyl phthalate, Di-n-butyl phthalate and Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Job ID: 580-53747-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 202235 recovered outside control limits for Benzo(g,h,i)perylene, Dibenz(a,h)anthracene and Indeno(1,2,3-cd)pyrene. All target analytes passed recovery criteria in both LCS and LCSD.

Method(s) 8270D: The LCS and LCSD in low level sediment (2mL FV) prep batch 202235 were spiked at the standard (10mL FV) level. Therefore, LCS and LCSD extracts were diluted 5x prior to analysis.

Method(s) 8270D: The method blank for preparation batch 202998 and analytical batch 203867 contained Diethyl phthalate and Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: The following samples was diluted prior to analysis due to the nature of the sample matrix: MW-9-2 (580-53747-1), MW-3-1.5 (580-53747-4), (580-53747-B-4-B MS) and (580-53747-B-4-C MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Due to matrix interference from previous samples, internal standard responses for Perylene-12 were outside of acceptance limits for the following samples: MW-9-19-A (580-53747-7), MW-3-21-A (580-53747-14), (580-53787-A-11-B), (580-53787-A-11-C MS) and (580-53787-A-11-D MSD). The affected samples were re-analyzed with acceptable results. Data for Perylene-d12 and associated target analytes have been reported from the re-analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8081B: The method blank for 202233 contained Heptachlor above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8081B: The laboratory control sample (LCS) for batch 202233 recovered outside control limits for the following analytes: Chlordane (technical). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8081B: The method blank for 202997 contained Heptachlor, Heptachlor epoxide, Dieldrin and Endrin ketone above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8081B: The laboratory control sample (LCS) for 202997 recovered outside control limits for the following analytes: Toxaphene. Toxaphene was not detected in samples. Samples have been qualified and reported.

Method(s) 8081B: The surrogate recovey of DCB Decachlorobiphenyl for analytical batch 205885 and 204005 was outside control limtis on the primary column for all associated QC. Surrogate recovery on the secondary column was within control limtis. Samples have been qualified and reported.

Method(s) 8081B: The following sample was analyzed outside of analytical holding time due to laboratory error MW-9-2 (580-53747-1), MW-3-4.5 (580-53747-3), and MW-3-1.5 (580-53747-4). Samples have been qualified and reported.

Method(s) 8082A: The following samples was diluted due to the nature of the sample matrix: MW-9-2 (580-53747-1), MW-3-4.5 (580-53747-3), MW-3-1.5 (580-53747-4), (580-53747-A-1-E MS) and (580-53747-A-1-F MSD). Elevated reporting limits (RLs) are provided.

Method(s) NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: (580-53710-A-1-A) and (580-53710-A-1-B DU).

Method(s) NWTPH-Dx: The continuing calibration verification (CCV) associated with batch 580-202887 recovered above the upper control limit for o-Terphenyl, #2 Diesel (C10-C24) and Motor Oil (>C24-C36). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Job ID: 580-53747-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
Z	The chromatographic response does not resemble a typical fuel pattern.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53747-1

Client Sample ID: MW-9-2
Date Collected: 09/29/15 09:12
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-1
Matrix: Solid
Percent Solids: 82.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		46	4.3	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
1,1,1-Trichloroethane	ND		46	6.4	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
1,1,2,2-Tetrachloroethane	ND		11	2.6	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
1,1,2-Trichloroethane	ND		14	3.2	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
1,1-Dichloroethane	ND		46	4.8	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
1,2,3-Trichloropropane	ND		46	13	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
1,2-Dibromoethane	ND		18	3.9	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
1,2-Dichloroethane	ND		18	3.8	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
1,2-Dichloropropane	ND		14	2.7	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
2-Butanone	ND		460	60	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
2-Chloroethyl vinyl ether	ND		230	7.1	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
2-Hexanone	ND		230	41	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
4-Methyl-2-pentanone	ND		230	34	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Acetone	ND		920	200	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Acrolein	ND		1400	100	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Acrylonitrile	ND		460	110	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Benzene	ND		18	4.0	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Bromochloromethane	ND		46	5.3	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Bromodichloromethane	ND		46	1.6	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Bromoform	ND		46	7.4	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Bromomethane	ND		160	15	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Carbon disulfide	ND		46	5.0	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Carbon tetrachloride	ND		23	4.3	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Chlorobenzene	ND		46	11	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Chlorodibromomethane	ND		23	3.2	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Chloroethane	ND		460	18	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Chloroform	ND		46	4.8	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Chloromethane	ND		110	12	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
cis-1,2-Dichloroethene	ND		46	5.6	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
cis-1,3-Dichloropropene	ND		18	2.1	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Dibromomethane	ND		69	15	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Dichlorodifluoromethane	ND		46	7.4	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Ethylbenzene	ND		46	2.3	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Iodomethane	ND		230	7.2	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Isopropylbenzene	ND		46	3.0	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Methyl tert-butyl ether	ND		46	6.9	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Methylene Chloride	**34**		29	13	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
m-Xylene & p-Xylene	ND		46	3.4	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
o-Xylene	ND		46	3.4	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Styrene	ND		46	2.7	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
t-Butylbenzene	ND		46	3.5	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Tetrachloroethene	ND		23	6.1	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Toluene	**4.2**	**J**	46	3.0	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
trans-1,2-Dichloroethene	ND		46	4.3	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
trans-1,3-Dichloropropene	ND		46	8.0	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
trans-1,4-Dichloro-2-butene	ND		230	18	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Trichloroethene	ND		27	3.5	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Trichlorofluoromethane	ND		46	6.7	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1
Vinyl acetate	ND		230	53	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1

Client Sample ID: MW-9-2
Date Collected: 09/29/15 09:12
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-1
Matrix: Solid
Percent Solids: 82.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		18	8.1	ug/Kg	☼	10/02/15 10:04	10/02/15 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*71 - 136*	*10/02/15 10:04*	*10/02/15 14:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*10/02/15 10:04*	*10/02/15 14:33*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 132*	*10/02/15 10:04*	*10/02/15 14:33*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*10/02/15 10:04*	*10/02/15 14:33*	*1*
Trifluorotoluene (Surr)	*98*		*65 - 140*	*10/02/15 10:04*	*10/02/15 14:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**3.8**	**J**	12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
2-Methylnaphthalene	ND		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Dimethyl phthalate	ND		60	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Acenaphthylene	**4.0**	**J**	12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Acenaphthene	ND		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Diethyl phthalate	**43**	**J B**	120	9.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Fluorene	ND		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Phenanthrene	**25**		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Anthracene	**3.0**	**J**	12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Di-n-butyl phthalate	ND		300	30	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Fluoranthene	**60**		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Pyrene	**63**		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Butyl benzyl phthalate	ND		120	30	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Benzo[a]anthracene	**26**		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Chrysene	**42**		15	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Bis(2-ethylhexyl) phthalate	**73**	**J B**	360	30	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Di-n-octyl phthalate	ND		300	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Benzo[b]fluoranthene	**55**		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Benzo[k]fluoranthene	**23**		15	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Benzo[a]pyrene	**45**		18	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Indeno[1,2,3-cd]pyrene	**34**	*****	24	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Dibenz(a,h)anthracene	**7.9**	**J ***	24	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5
Benzo[g,h,i]perylene	**39**	*****	15	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 20:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*109*		*42 - 151*	*10/01/15 12:45*	*10/15/15 20:40*	*5*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**1.6**	**J B**	4.6	0.57	mg/Kg	☼	10/06/15 13:42	10/06/15 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*	*10/06/15 13:42*	*10/06/15 17:07*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	**0.44**	**J H**	1.2	0.18	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
2,4'-DDE	ND	H	1.2	0.18	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
2,4'-DDT	ND	H	1.2	0.18	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
4,4'-DDD	**1.2**	**H**	1.2	0.088	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5

Client Sample ID: MW-9-2
Date Collected: 09/29/15 09:12
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-1
Matrix: Solid
Percent Solids: 82.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	**1.4**	**H**	1.2	0.085	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
4,4'-DDT	**1.4**	**H**	1.2	0.092	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Aldrin	ND	H	0.60	0.13	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
alpha-BHC	ND	H	0.60	0.17	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
alpha-Chlordane	ND	H	0.60	0.081	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
beta-BHC	ND	H	0.60	0.20	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Chlordane (technical)	ND	* H	6.0	0.85	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
cis-Nonachlor	ND	H	1.2	0.12	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
delta-BHC	ND	H	0.60	0.089	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Dieldrin	ND	H	1.2	0.071	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Endosulfan I	ND	H	0.60	0.062	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Endosulfan II	ND	H	1.2	0.10	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Endosulfan sulfate	ND	H	1.2	0.11	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Endrin	ND	H F2 F1	1.2	0.098	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Endrin aldehyde	ND	H	1.2	0.12	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Endrin ketone	ND	H	1.2	0.16	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
gamma-BHC (Lindane)	ND	H	0.60	0.18	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
gamma-Chlordane	ND	H	0.60	0.081	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Heptachlor	ND	H	1.2	0.28	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Heptachlor epoxide	ND	H	0.60	0.0018	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Methoxychlor	ND	H F1	6.0	0.16	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
oxy-Chlordane	ND	H	1.2	0.18	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
Toxaphene	ND	H	60	14	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5
trans-Nonachlor	ND	H	1.2	0.18	ug/Kg	☼	10/01/15 12:32	11/18/15 09:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*	*X*	*60 - 128*	*10/01/15 12:32*	*11/18/15 09:07*	*5*
DCB Decachlorobiphenyl	*89*		*60 - 128*	*10/01/15 12:32*	*11/18/15 09:07*	*5*
Tetrachloro-m-xylene	*77*		*35 - 129*	*10/01/15 12:32*	*11/18/15 09:07*	*5*
Tetrachloro-m-xylene	*82*		*35 - 129*	*10/01/15 12:32*	*11/18/15 09:07*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		6.0	0.30	ug/Kg	☼	10/01/15 12:32	10/22/15 16:13	5
PCB-1221	ND		6.6	2.1	ug/Kg	☼	10/01/15 12:32	10/22/15 16:13	5
PCB-1232	ND		6.6	1.3	ug/Kg	☼	10/01/15 12:32	10/22/15 16:13	5
PCB-1242	ND		6.0	1.3	ug/Kg	☼	10/01/15 12:32	10/22/15 16:13	5
PCB-1248	ND		6.6	0.97	ug/Kg	☼	10/01/15 12:32	10/22/15 16:13	5
PCB-1254	ND		6.0	0.54	ug/Kg	☼	10/01/15 12:32	10/22/15 16:13	5
PCB-1260	ND		6.0	0.79	ug/Kg	☼	10/01/15 12:32	10/22/15 16:13	5
PCB-1262	ND		6.0	1.1	ug/Kg	☼	10/01/15 12:32	10/22/15 16:13	5
PCB-1268	ND		6.0	1.3	ug/Kg	☼	10/01/15 12:32	10/22/15 16:13	5
Polychlorinated biphenyls, Total	ND		6.6	2.1	ug/Kg	☼	10/01/15 12:32	10/22/15 16:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*50 - 140*	*10/01/15 12:32*	*10/22/15 16:13*	*5*
Tetrachloro-m-xylene	*73*		*45 - 135*	*10/01/15 12:32*	*10/22/15 16:13*	*5*

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53747-1

Client Sample ID: MW-9-2
Date Collected: 09/29/15 09:12
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-1
Matrix: Solid
Percent Solids: 82.5

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	20	J	30	4.3	mg/Kg	☼	10/01/15 13:31	10/02/15 20:20	1
Motor Oil (>C24-C36)	57	J	60	11	mg/Kg	☼	10/01/15 13:31	10/02/15 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*10/01/15 13:31*	*10/02/15 20:20*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24000		18	18	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Antimony	0.80		0.12	0.025	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Arsenic	10		0.29	0.11	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Barium	230		0.29	0.046	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Cadmium	0.68		0.12	0.011	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Chromium	27	B	0.29	0.037	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Copper	27		0.24	0.058	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Lead	58		0.29	0.028	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Magnesium	6000		59	1.6	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Nickel	19		0.29	0.048	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Silver	0.097	J	0.12	0.0071	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5
Zinc	120		2.9	0.66	mg/Kg	☼	10/14/15 10:26	10/14/15 16:13	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.023	0.0068	mg/Kg	☼	10/13/15 07:02	10/13/15 11:04	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.07				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	5200		2000	44	mg/Kg			10/09/15 14:51	1
TOC Result 2	4100		2000	44	mg/Kg			10/09/15 14:51	1
TOC Result 1	6200		2000	44	mg/Kg			10/09/15 14:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83		0.10	0.10	%			10/02/15 07:06	1
Percent Moisture	17		0.10	0.10	%			10/02/15 07:06	1

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53747-1

Client Sample ID: MW-3-4.5
Date Collected: 09/29/15 13:53
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-3
Matrix: Solid
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	F1	41	3.9	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
1,1,1-Trichloroethane	ND		41	5.8	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
1,1,2,2-Tetrachloroethane	ND		10	2.4	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
1,1,2-Trichloroethane	ND		12	2.9	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
1,1-Dichloroethane	ND		41	4.3	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
1,2,3-Trichloropropane	ND		41	12	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
1,2-Dibromoethane	ND	F1	16	3.5	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
1,2-Dichloroethane	ND		16	3.4	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
1,2-Dichloropropane	ND		12	2.5	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
2-Butanone	ND		410	54	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
2-Chloroethyl vinyl ether	ND		210	6.4	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
2-Hexanone	ND		210	37	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
4-Methyl-2-pentanone	ND		210	30	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Acetone	ND		820	180	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Acrolein	ND		1200	94	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Acrylonitrile	ND	F1	410	99	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Benzene	**6.9**	**J**	16	3.6	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Bromochloromethane	ND		41	4.7	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Bromodichloromethane	ND		41	1.4	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Bromoform	ND		41	6.7	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Bromomethane	ND		140	14	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Carbon disulfide	ND		41	4.5	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Carbon tetrachloride	ND		21	3.9	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Chlorobenzene	ND		41	10	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Chlorodibromomethane	ND		21	2.9	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Chloroethane	ND		410	16	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Chloroform	ND		41	4.3	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Chloromethane	ND		100	10	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
cis-1,2-Dichloroethene	ND		41	5.1	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
cis-1,3-Dichloropropene	ND		16	1.9	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Dibromomethane	ND		62	14	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Dichlorodifluoromethane	ND		41	6.7	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Ethylbenzene	ND		41	2.1	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Iodomethane	ND		210	6.5	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Isopropylbenzene	ND		41	2.7	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Methyl tert-butyl ether	ND		41	6.2	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Methylene Chloride	**28**		26	12	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
m-Xylene & p-Xylene	**4.6**	**J**	41	3.1	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
o-Xylene	ND		41	3.1	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Styrene	ND	F1	41	2.5	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
t-Butylbenzene	ND		41	3.2	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Tetrachloroethene	ND		21	5.5	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Toluene	**38**	**J**	41	2.7	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
trans-1,2-Dichloroethene	ND		41	3.9	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
trans-1,3-Dichloropropene	ND		41	7.2	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
trans-1,4-Dichloro-2-butene	ND		210	16	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Trichloroethene	ND		25	3.2	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Trichlorofluoromethane	ND		41	6.1	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1
Vinyl acetate	ND		210	48	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1

Client Sample ID: MW-3-4.5
Date Collected: 09/29/15 13:53
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-3
Matrix: Solid
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	F1	16	7.3	ug/Kg	☼	10/02/15 10:04	10/02/15 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*71 - 136*	*10/02/15 10:04*	*10/02/15 15:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*10/02/15 10:04*	*10/02/15 15:27*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 132*	*10/02/15 10:04*	*10/02/15 15:27*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/02/15 10:04*	*10/02/15 15:27*	*1*
Trifluorotoluene (Surr)	*98*		*65 - 140*	*10/02/15 10:04*	*10/02/15 15:27*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.5**	**J**	2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
2-Methylnaphthalene	**1.1**	**J**	2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Dimethyl phthalate	**0.74**	**J**	12	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Acenaphthylene	ND		2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Acenaphthene	ND		2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Diethyl phthalate	**8.1**	**J B**	24	1.8	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Fluorene	ND		2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Phenanthrene	**0.62**	**J**	2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Anthracene	ND		2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Di-n-butyl phthalate	**7.7**	**J**	59	5.9	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Fluoranthene	**0.69**	**J**	2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Pyrene	ND		2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Butyl benzyl phthalate	**8.9**	**J B**	24	5.9	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Benzo[a]anthracene	**0.66**	**J**	2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Chrysene	ND		2.9	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Bis(2-ethylhexyl) phthalate	**19**	**J B**	71	5.9	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Di-n-octyl phthalate	ND		59	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Benzo[b]fluoranthene	ND		2.4	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Benzo[k]fluoranthene	ND		2.9	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Benzo[a]pyrene	ND		3.5	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Indeno[1,2,3-cd]pyrene	ND	*	4.7	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Dibenz(a,h)anthracene	ND	*	4.7	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1
Benzo[g,h,i]perylene	ND	*	2.9	0.59	ug/Kg	☼	10/01/15 12:45	10/15/15 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*111*		*42 - 151*	*10/01/15 12:45*	*10/15/15 21:31*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**3.0**	**J B**	4.1	0.52	mg/Kg	☼	10/06/15 13:42	10/06/15 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*	*10/06/15 13:42*	*10/06/15 18:09*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	2.3	0.35	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
2,4'-DDE	ND	H	2.3	0.35	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
2,4'-DDT	ND	H	2.3	0.35	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
4,4'-DDD	ND	H	2.3	0.17	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10

Client Sample ID: MW-3-4.5
Date Collected: 09/29/15 13:53
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-3
Matrix: Solid
Percent Solids: 84.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	2.3	0.17	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
4,4'-DDT	ND	H	2.3	0.18	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Aldrin	ND	H	1.2	0.26	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
alpha-BHC	ND	H	1.2	0.33	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
alpha-Chlordane	ND	H	1.2	0.16	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
beta-BHC	ND	H	1.2	0.38	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Chlordane (technical)	ND	H *	12	1.6	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
cis-Nonachlor	ND	H	2.3	0.23	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
delta-BHC	ND	H	1.2	0.17	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Dieldrin	ND	H	2.3	0.14	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Endosulfan I	ND	H	1.2	0.12	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Endosulfan II	ND	H	2.3	0.20	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Endosulfan sulfate	ND	H	2.3	0.22	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Endrin	ND	H	2.3	0.19	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Endrin aldehyde	ND	H	2.3	0.23	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Endrin ketone	ND	H	2.3	0.30	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
gamma-BHC (Lindane)	ND	H	1.2	0.35	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
gamma-Chlordane	ND	H	1.2	0.16	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Heptachlor	ND	H	2.3	0.55	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Heptachlor epoxide	ND	H	1.2	0.0035	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Methoxychlor	ND	H	12	0.30	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
oxy-Chlordane	ND	H	2.3	0.35	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
Toxaphene	ND	H	120	27	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10
trans-Nonachlor	ND	H	2.3	0.35	ug/Kg	☼	10/01/15 12:32	11/18/15 09:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*164*	*X*	*60 - 128*	*10/01/15 12:32*	*11/18/15 09:42*	*10*
DCB Decachlorobiphenyl	*76*		*60 - 128*	*10/01/15 12:32*	*11/18/15 09:42*	*10*
Tetrachloro-m-xylene	*71*		*35 - 129*	*10/01/15 12:32*	*11/18/15 09:42*	*10*
Tetrachloro-m-xylene	*78*		*35 - 129*	*10/01/15 12:32*	*11/18/15 09:42*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		12	0.59	ug/Kg	☼	10/01/15 12:32	10/22/15 17:19	10
PCB-1221	ND		13	4.0	ug/Kg	☼	10/01/15 12:32	10/22/15 17:19	10
PCB-1232	ND		13	2.6	ug/Kg	☼	10/01/15 12:32	10/22/15 17:19	10
PCB-1242	ND		12	2.5	ug/Kg	☼	10/01/15 12:32	10/22/15 17:19	10
PCB-1248	ND		13	1.9	ug/Kg	☼	10/01/15 12:32	10/22/15 17:19	10
PCB-1254	**18**		12	1.1	ug/Kg	☼	10/01/15 12:32	10/22/15 17:19	10
PCB-1260	**14**		12	1.5	ug/Kg	☼	10/01/15 12:32	10/22/15 17:19	10
PCB-1262	ND		12	2.2	ug/Kg	☼	10/01/15 12:32	10/22/15 17:19	10
PCB-1268	ND		12	2.5	ug/Kg	☼	10/01/15 12:32	10/22/15 17:19	10
Polychlorinated biphenyls, Total	**32**		13	4.0	ug/Kg	☼	10/01/15 12:32	10/22/15 17:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*50 - 140*	*10/01/15 12:32*	*10/22/15 17:19*	*10*
Tetrachloro-m-xylene	*73*		*45 - 135*	*10/01/15 12:32*	*10/22/15 17:19*	*10*

Client Sample ID: MW-3-4.5
Date Collected: 09/29/15 13:53
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-3
Matrix: Solid
Percent Solids: 84.3

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	20	J	29	4.1	mg/Kg	☼	10/01/15 13:31	10/02/15 20:56	1
Motor Oil (>C24-C36)	120		58	10	mg/Kg	☼	10/01/15 13:31	10/02/15 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*10/01/15 13:31*	*10/02/15 20:56*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		17	17	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Antimony	7.6		0.11	0.024	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Arsenic	8.5		0.29	0.10	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Barium	180		0.29	0.044	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Cadmium	0.56		0.11	0.011	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Chromium	23	B	0.29	0.036	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Copper	37		0.23	0.056	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Lead	2700		0.29	0.027	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Magnesium	4000		57	1.5	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Nickel	16		0.29	0.046	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Silver	0.13		0.11	0.0068	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5
Zinc	350		2.9	0.64	mg/Kg	☼	10/14/15 10:26	10/14/15 16:17	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.022	0.0067	mg/Kg	☼	10/13/15 07:02	10/13/15 11:13	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.08				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	9900		2000	44	mg/Kg			10/09/15 15:00	1
TOC Result 2	10000		2000	44	mg/Kg			10/09/15 15:00	1
TOC Result 1	9500		2000	44	mg/Kg			10/09/15 15:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84		0.10	0.10	%			10/02/15 10:39	1
Percent Moisture	16		0.10	0.10	%			10/02/15 10:39	1

Client Sample ID: MW-3-1.5
Date Collected: 09/29/15 13:58
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-4
Matrix: Solid
Percent Solids: 80.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		45	4.3	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
1,1,1-Trichloroethane	ND		45	6.3	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
1,1,2,2-Tetrachloroethane	ND		11	2.6	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
1,1,2-Trichloroethane	ND		14	3.2	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
1,1-Dichloroethane	ND		45	4.7	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
1,2,3-Trichloropropane	ND		45	13	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
1,2-Dibromoethane	ND		18	3.8	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
1,2-Dichloroethane	ND		18	3.7	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
1,2-Dichloropropane	ND		14	2.7	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
2-Butanone	ND		450	59	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
2-Chloroethyl vinyl ether	ND		230	7.0	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
2-Hexanone	ND		230	40	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
4-Methyl-2-pentanone	ND		230	33	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Acetone	ND		900	200	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Acrolein	ND		1400	100	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Acrylonitrile	ND		450	110	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Benzene	ND		18	3.9	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Bromochloromethane	ND		45	5.2	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Bromodichloromethane	ND		45	1.6	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Bromoform	ND		45	7.3	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Bromomethane	ND		160	15	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Carbon disulfide	ND		45	5.0	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Carbon tetrachloride	ND		23	4.3	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Chlorobenzene	ND		45	11	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Chlorodibromomethane	ND		23	3.2	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Chloroethane	ND		450	18	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Chloroform	ND		45	4.7	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Chloromethane	ND		110	11	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
cis-1,2-Dichloroethene	ND		45	5.5	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
cis-1,3-Dichloropropene	ND		18	2.0	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Dibromomethane	ND		68	15	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Dichlorodifluoromethane	ND		45	7.3	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Ethylbenzene	ND		45	2.3	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Iodomethane	ND		230	7.1	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Isopropylbenzene	ND		45	2.9	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Methyl tert-butyl ether	ND		45	6.8	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Methylene Chloride	ND		28	13	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
m-Xylene & p-Xylene	ND		45	3.4	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
o-Xylene	ND		45	3.4	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Styrene	ND		45	2.7	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
t-Butylbenzene	ND		45	3.5	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Tetrachloroethene	ND		23	6.0	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Toluene	ND		45	2.9	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
trans-1,2-Dichloroethene	ND		45	4.3	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
trans-1,3-Dichloropropene	ND		45	7.9	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
trans-1,4-Dichloro-2-butene	ND		230	18	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Trichloroethene	ND		27	3.5	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Trichlorofluoromethane	ND		45	6.6	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1
Vinyl acetate	ND		230	52	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1

Client Sample ID: MW-3-1.5
Date Collected: 09/29/15 13:58
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-4
Matrix: Solid
Percent Solids: 80.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		18	8.0	ug/Kg	☼	10/02/15 10:04	10/02/15 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 136*	*10/02/15 10:04*	*10/02/15 16:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 120*	*10/02/15 10:04*	*10/02/15 16:48*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/02/15 10:04*	*10/02/15 16:48*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/02/15 10:04*	*10/02/15 16:48*	*1*
Trifluorotoluene (Surr)	*95*		*65 - 140*	*10/02/15 10:04*	*10/02/15 16:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**3.3**	**J**	12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
2-Methylnaphthalene	ND		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Dimethyl phthalate	ND		61	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Acenaphthylene	ND		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Acenaphthene	ND		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Diethyl phthalate	**39**	**J B**	120	9.1	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Fluorene	ND		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Phenanthrene	**24**		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Anthracene	**4.0**	**J**	12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Di-n-butyl phthalate	**34**	**J**	300	30	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Fluoranthene	**51**		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Pyrene	**51**		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Butyl benzyl phthalate	**30**	**J B**	120	30	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Benzo[a]anthracene	**26**		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Chrysene	**34**		15	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Bis(2-ethylhexyl) phthalate	**53**	**J B**	360	30	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Di-n-octyl phthalate	ND		300	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Benzo[b]fluoranthene	**53**		12	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Benzo[k]fluoranthene	**17**		15	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Benzo[a]pyrene	**31**		18	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Indeno[1,2,3-cd]pyrene	**25**	*****	24	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Dibenz(a,h)anthracene	**5.6**	**J ***	24	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5
Benzo[g,h,i]perylene	**29**	*****	15	3.0	ug/Kg	☼	10/01/15 12:45	10/15/15 21:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*89*		*42 - 151*	*10/01/15 12:45*	*10/15/15 21:56*	*5*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**0.99**	**J B**	4.5	0.56	mg/Kg	☼	10/06/15 13:42	10/06/15 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*10/06/15 13:42*	*10/06/15 18:41*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	**0.48**	**J H**	1.2	0.19	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
2,4'-DDE	ND	H	1.2	0.19	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
2,4'-DDT	**0.42**	**J H**	1.2	0.19	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
4,4'-DDD	**2.1**	**H**	1.2	0.090	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5

Client Sample ID: MW-3-1.5
Date Collected: 09/29/15 13:58
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-4
Matrix: Solid
Percent Solids: 80.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	**1.5**	**H**	1.2	0.087	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
4,4'-DDT	**2.4**	**H**	1.2	0.094	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Aldrin	ND	H	0.62	0.14	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
alpha-BHC	ND	H	0.62	0.17	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
alpha-Chlordane	ND	H	0.62	0.083	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
beta-BHC	ND	H	0.62	0.20	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Chlordane (technical)	ND	H *	6.2	0.87	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
cis-Nonachlor	ND	H	1.2	0.12	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
delta-BHC	ND	H	0.62	0.092	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Dieldrin	**0.68**	**J H**	1.2	0.073	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Endosulfan I	ND	H	0.62	0.063	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Endosulfan II	ND	H	1.2	0.11	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Endosulfan sulfate	ND	H	1.2	0.11	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Endrin	ND	H	1.2	0.10	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Endrin aldehyde	ND	H	1.2	0.12	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Endrin ketone	ND	H	1.2	0.16	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
gamma-BHC (Lindane)	ND	H	0.62	0.19	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
gamma-Chlordane	ND	H	0.62	0.083	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Heptachlor	ND	H	1.2	0.29	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Heptachlor epoxide	ND	H	0.62	0.0019	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Methoxychlor	**1.3**	**J H**	6.2	0.16	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
oxy-Chlordane	ND	H	1.2	0.19	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
Toxaphene	ND	H	62	14	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5
trans-Nonachlor	ND	H	1.2	0.19	ug/Kg	☼	10/01/15 12:32	11/18/15 09:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*60 - 128*	*10/01/15 12:32*	*11/18/15 09:59*	*5*
DCB Decachlorobiphenyl	*73*		*60 - 128*	*10/01/15 12:32*	*11/18/15 09:59*	*5*
Tetrachloro-m-xylene	*83*		*35 - 129*	*10/01/15 12:32*	*11/18/15 09:59*	*5*
Tetrachloro-m-xylene	*71*		*35 - 129*	*10/01/15 12:32*	*11/18/15 09:59*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		6.2	0.31	ug/Kg	☼	10/01/15 12:32	10/22/15 17:36	5
PCB-1221	ND		6.8	2.1	ug/Kg	☼	10/01/15 12:32	10/22/15 17:36	5
PCB-1232	ND		6.8	1.4	ug/Kg	☼	10/01/15 12:32	10/22/15 17:36	5
PCB-1242	ND		6.2	1.3	ug/Kg	☼	10/01/15 12:32	10/22/15 17:36	5
PCB-1248	ND		6.8	0.99	ug/Kg	☼	10/01/15 12:32	10/22/15 17:36	5
PCB-1254	**13**		6.2	0.56	ug/Kg	☼	10/01/15 12:32	10/22/15 17:36	5
PCB-1260	ND		6.2	0.80	ug/Kg	☼	10/01/15 12:32	10/22/15 17:36	5
PCB-1262	ND		6.2	1.2	ug/Kg	☼	10/01/15 12:32	10/22/15 17:36	5
PCB-1268	ND		6.2	1.3	ug/Kg	☼	10/01/15 12:32	10/22/15 17:36	5
Polychlorinated biphenyls, Total	**13**		6.8	2.1	ug/Kg	☼	10/01/15 12:32	10/22/15 17:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*50 - 140*	*10/01/15 12:32*	*10/22/15 17:36*	*5*
Tetrachloro-m-xylene	*60*		*45 - 135*	*10/01/15 12:32*	*10/22/15 17:36*	*5*

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53747-1

Client Sample ID: MW-3-1.5
Date Collected: 09/29/15 13:58
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-4
Matrix: Solid
Percent Solids: 80.7

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	12	J Z	30	4.3	mg/Kg	☼	10/01/15 13:31	10/09/15 13:38	1
Motor Oil (>C24-C36)	24	J Z	60	11	mg/Kg	☼	10/01/15 13:31	10/09/15 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*10/01/15 13:31*	*10/09/15 13:38*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	22000		17	17	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Antimony	0.84		0.11	0.024	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Arsenic	9.5		0.29	0.10	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Barium	230		0.29	0.045	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Cadmium	0.70		0.11	0.011	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Chromium	26	B	0.29	0.036	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Copper	27		0.23	0.056	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Lead	110		0.29	0.027	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Magnesium	5400		57	1.5	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Nickel	19		0.29	0.046	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Silver	0.20		0.11	0.0069	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5
Zinc	190		2.9	0.64	mg/Kg	☼	10/14/15 10:26	10/14/15 16:21	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.023	0.0069	mg/Kg	☼	10/13/15 07:02	10/13/15 11:16	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.37				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	6200		2000	44	mg/Kg			10/09/15 15:11	1
TOC Result 2	6000		2000	44	mg/Kg			10/09/15 15:11	1
TOC Result 1	6300		2000	44	mg/Kg			10/09/15 15:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81		0.10	0.10	%			10/02/15 07:06	1
Percent Moisture	19		0.10	0.10	%			10/02/15 07:06	1

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53747-1

Client Sample ID: MW-9-19-A
Date Collected: 09/29/15 10:17
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-7
Matrix: Solid
Percent Solids: 73.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	67	11	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Chloromethane	ND	H	170	17	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Vinyl chloride	ND	H	27	12	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Bromomethane	ND	H	240	23	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Chloroethane	ND	H	670	27	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Trichlorofluoromethane	**10**	**J H**	67	9.9	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Acrolein	ND	H	2000	150	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Iodomethane	ND	H	340	11	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Carbon disulfide	**8.4**	**J H**	67	7.4	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Acetone	ND	H	1300	290	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Methyl tert-butyl ether	ND	H	67	10	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
trans-1,2-Dichloroethene	ND	H	67	6.4	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Acrylonitrile	ND	H	670	160	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
1,1-Dichloroethane	ND	H	67	7.1	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Vinyl acetate	ND	H	340	78	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
cis-1,2-Dichloroethene	**11**	**J H**	67	8.2	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
2-Butanone	ND	H	670	88	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Bromochloromethane	ND	H	67	7.7	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Chloroform	ND	H	67	7.1	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
1,1,1-Trichloroethane	ND	H	67	9.4	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Carbon tetrachloride	ND	H	34	6.4	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Benzene	**6.3**	**J H**	27	5.9	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
1,2-Dichloroethane	ND	H	27	5.5	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Trichloroethene	ND	H	40	5.2	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
1,2-Dichloropropane	ND	H	20	4.0	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Dibromomethane	ND	H	100	22	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Bromodichloromethane	ND	H	67	2.4	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
2-Chloroethyl vinyl ether	ND	H	340	10	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
cis-1,3-Dichloropropene	ND	H	27	3.0	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
4-Methyl-2-pentanone	ND	H	340	50	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Toluene	**8.3**	**J H**	67	4.4	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
trans-1,3-Dichloropropene	ND	H	67	12	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
1,1,2-Trichloroethane	ND	H	20	4.7	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Tetrachloroethene	**9.3**	**J H**	34	8.9	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
2-Hexanone	ND	H	340	60	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Chlorodibromomethane	ND	H	34	4.7	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
1,2-Dibromoethane	ND	H	27	5.7	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Chlorobenzene	ND	H	67	16	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
1,1,1,2-Tetrachloroethane	ND	H	67	6.4	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Ethylbenzene	**6.7**	**J H**	67	3.4	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
m-Xylene & p-Xylene	**8.2**	**J H**	67	5.0	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
o-Xylene	**7.3**	**J H**	67	5.0	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Styrene	**7.1**	**J H**	67	4.0	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Bromoform	ND	H	67	11	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
Isopropylbenzene	**7.4**	**J H**	67	4.4	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
1,1,2,2-Tetrachloroethane	ND	H	17	3.9	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
1,2,3-Trichloropropane	ND	H	67	19	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
trans-1,4-Dichloro-2-butene	ND	H	340	27	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1
t-Butylbenzene	**11**	**J H**	67	5.2	ug/Kg	☼	10/12/15 10:34	10/12/15 16:40	1

Client Sample ID: MW-9-19-A

Date Collected: 09/29/15 10:17
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-7

Matrix: Solid
Percent Solids: 73.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/12/15 10:34*	*10/12/15 16:40*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*10/12/15 10:34*	*10/12/15 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 136*	*10/12/15 10:34*	*10/12/15 16:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*10/12/15 10:34*	*10/12/15 16:40*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 132*	*10/12/15 10:34*	*10/12/15 16:40*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**28**	**J H B**	42	19	ug/Kg	☼	10/12/15 10:34	10/22/15 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*98*		*65 - 140*	*10/12/15 10:34*	*10/22/15 14:59*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/12/15 10:34*	*10/22/15 14:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*	*10/12/15 10:34*	*10/22/15 14:59*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*	*10/12/15 10:34*	*10/22/15 14:59*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/12/15 10:34*	*10/22/15 14:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
2-Methylnaphthalene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Dimethyl phthalate	ND		13	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Acenaphthylene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Acenaphthene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Diethyl phthalate	**20**	**J B**	27	2.0	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Fluorene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Phenanthrene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Anthracene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Di-n-butyl phthalate	**12**	**J**	67	6.7	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Fluoranthene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Pyrene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Butyl benzyl phthalate	**18**	**J B**	27	6.7	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Benzo[a]anthracene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Chrysene	ND		3.3	0.67	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1
Bis(2-ethylhexyl) phthalate	**18**	**J B**	80	6.7	ug/Kg	☼	10/10/15 14:08	10/21/15 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*109*		*42 - 151*	*10/10/15 14:08*	*10/21/15 07:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	**2.7**	**J**	67	0.67	ug/Kg	☼	10/10/15 14:08	10/25/15 16:51	1
Benzo[b]fluoranthene	ND		2.7	0.67	ug/Kg	☼	10/10/15 14:08	10/25/15 16:51	1
Benzo[k]fluoranthene	ND		3.3	0.67	ug/Kg	☼	10/10/15 14:08	10/25/15 16:51	1
Benzo[a]pyrene	ND		4.0	0.67	ug/Kg	☼	10/10/15 14:08	10/25/15 16:51	1
Indeno[1,2,3-cd]pyrene	ND		5.3	0.67	ug/Kg	☼	10/10/15 14:08	10/25/15 16:51	1
Dibenz(a,h)anthracene	ND		5.3	0.67	ug/Kg	☼	10/10/15 14:08	10/25/15 16:51	1
Benzo[g,h,i]perylene	ND		3.3	0.67	ug/Kg	☼	10/10/15 14:08	10/25/15 16:51	1

Client Sample ID: MW-9-19-A
Date Collected: 09/29/15 10:17
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-7
Matrix: Solid
Percent Solids: 73.0

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**2.6**	**J H**	6.9	0.87	mg/Kg	☼	10/13/15 15:51	10/14/15 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*10/13/15 15:51*	*10/14/15 00:17*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.27	0.040	ug/Kg	☼	10/10/15 13:26	11/18/15 09:24	1
2,4'-DDE	ND		0.27	0.040	ug/Kg	☼	10/10/15 13:26	11/18/15 09:24	1
2,4'-DDT	ND		0.27	0.040	ug/Kg	☼	10/10/15 13:26	11/18/15 09:24	1
4,4'-DDD	**0.028**	**J B**	0.27	0.019	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
4,4'-DDE	ND	F1	0.27	0.019	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
4,4'-DDT	ND	F1 F2	0.27	0.020	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Aldrin	ND	F1	0.13	0.030	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
alpha-BHC	ND		0.13	0.037	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
alpha-Chlordane	ND	F1	0.13	0.018	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
beta-BHC	ND	F1	0.13	0.043	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Chlordane (technical)	ND		1.3	0.19	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
cis-Nonachlor	ND		0.27	0.026	ug/Kg	☼	10/10/15 13:26	11/18/15 09:24	1
delta-BHC	ND	F1 F2	0.13	0.020	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Dieldrin	ND	F1	0.27	0.016	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Endosulfan I	ND	F1	0.13	0.014	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Endosulfan II	ND		0.27	0.023	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Endosulfan sulfate	ND	F1 F2	0.27	0.025	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Endrin	ND	F1	0.27	0.022	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Endrin aldehyde	ND		0.27	0.026	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Endrin ketone	**0.12**	**J B**	0.27	0.034	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
gamma-BHC (Lindane)	ND	F1 F2	0.13	0.040	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
gamma-Chlordane	**0.064**	**J**	0.13	0.018	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Heptachlor	**0.10**	**J B**	0.27	0.062	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Heptachlor epoxide	**0.0078**	**J B F1**	0.13	0.00040	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
Methoxychlor	**0.11**	**J F1**	1.3	0.034	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
oxy-Chlordane	ND		0.27	0.040	ug/Kg	☼	10/10/15 13:26	11/18/15 09:24	1
Toxaphene	ND		13	3.0	ug/Kg	☼	10/10/15 13:26	10/22/15 20:30	1
trans-Nonachlor	ND		0.27	0.040	ug/Kg	☼	10/10/15 13:26	11/18/15 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*	*X*	*60 - 128*	*10/10/15 13:26*	*10/22/15 20:30*	*1*
DCB Decachlorobiphenyl	*48*	*X*	*60 - 128*	*10/10/15 13:26*	*11/18/15 09:24*	*1*
DCB Decachlorobiphenyl	*58*	*X*	*60 - 128*	*10/10/15 13:26*	*11/18/15 09:24*	*1*
Tetrachloro-m-xylene	*65*		*35 - 129*	*10/10/15 13:26*	*10/22/15 20:30*	*1*
Tetrachloro-m-xylene	*65*		*35 - 129*	*10/10/15 13:26*	*11/18/15 09:24*	*1*
Tetrachloro-m-xylene	*58*		*35 - 129*	*10/10/15 13:26*	*11/18/15 09:24*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.067	ug/Kg	☼	10/10/15 13:26	10/20/15 20:36	1
PCB-1221	ND		1.5	0.45	ug/Kg	☼	10/10/15 13:26	10/20/15 20:36	1
PCB-1232	ND		1.5	0.29	ug/Kg	☼	10/10/15 13:26	10/20/15 20:36	1
PCB-1242	ND		1.3	0.28	ug/Kg	☼	10/10/15 13:26	10/20/15 20:36	1

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53747-1

Client Sample ID: MW-9-19-A
Date Collected: 09/29/15 10:17
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-7
Matrix: Solid
Percent Solids: 73.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		1.5	0.21	ug/Kg	☼	10/10/15 13:26	10/20/15 20:36	1
PCB-1254	ND		1.3	0.12	ug/Kg	☼	10/10/15 13:26	10/20/15 20:36	1
PCB-1260	ND	F1	1.3	0.17	ug/Kg	☼	10/10/15 13:26	10/20/15 20:36	1
PCB-1262	ND		1.3	0.25	ug/Kg	☼	10/10/15 13:26	10/20/15 20:36	1
PCB-1268	ND		1.3	0.28	ug/Kg	☼	10/10/15 13:26	10/20/15 20:36	1
Polychlorinated biphenyls, Total	ND		1.5	0.45	ug/Kg	☼	10/10/15 13:26	10/20/15 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*50 - 140*	*10/10/15 13:26*	*10/20/15 20:36*	*1*
Tetrachloro-m-xylene	*68*		*45 - 135*	*10/10/15 13:26*	*10/20/15 20:36*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		33	4.8	mg/Kg	☼	10/11/15 08:58	10/12/15 18:55	1
Motor Oil (>C24-C36)	ND		67	12	mg/Kg	☼	10/11/15 08:58	10/12/15 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*10/11/15 08:58*	*10/12/15 18:55*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		20	20	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Antimony	**0.51**		0.13	0.028	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Arsenic	**8.8**		0.34	0.12	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Barium	**160**		0.34	0.052	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Cadmium	**0.88**		0.13	0.013	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Chromium	**25**	**B**	0.34	0.042	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Copper	**35**		0.27	0.066	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Lead	**11**		0.34	0.032	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Magnesium	**6300**		67	1.8	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Nickel	**22**		0.34	0.054	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Silver	**0.067**	**J**	0.13	0.0080	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5
Zinc	**460**		3.4	0.75	mg/Kg	☼	10/14/15 10:26	10/14/15 16:25	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.026	0.0077	mg/Kg	☼	10/13/15 07:02	10/13/15 11:18	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**3.60**				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**380**	**J**	2000	44	mg/Kg			10/12/15 15:05	1
TOC Result 2	**350**	**J**	2000	44	mg/Kg			10/12/15 15:05	1
TOC Result 1	**420**	**J**	2000	44	mg/Kg			10/12/15 15:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**73**		0.10	0.10	%			10/12/15 08:42	1
Percent Moisture	**27**		0.10	0.10	%			10/12/15 08:42	1

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53747-1

Client Sample ID: MW-3-21-A
Date Collected: 09/29/15 14:42
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-14
Matrix: Solid
Percent Solids: 72.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	71	12	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Chloromethane	ND	H	180	18	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Vinyl chloride	ND	H	28	13	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Bromomethane	ND	H	250	24	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Chloroethane	ND	H	710	28	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Trichlorofluoromethane	ND	H	71	10	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Acrolein	ND	H	2100	160	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Iodomethane	ND	H	350	11	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Carbon disulfide	ND	H	71	7.8	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Acetone	ND	H	1400	310	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Methyl tert-butyl ether	ND	H	71	11	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
trans-1,2-Dichloroethene	ND	H	71	6.7	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Acrylonitrile	ND	H	710	170	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
1,1-Dichloroethane	ND	H	71	7.4	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Vinyl acetate	ND	H	350	82	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
cis-1,2-Dichloroethene	ND	H	71	8.7	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
2-Butanone	ND	H	710	93	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Bromochloromethane	ND	H	71	8.2	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Chloroform	ND	H	71	7.4	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
1,1,1-Trichloroethane	ND	H	71	9.9	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Carbon tetrachloride	ND	H	35	6.7	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Benzene	ND	H	28	6.2	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
1,2-Dichloroethane	ND	H	28	5.8	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Trichloroethene	ND	H	43	5.5	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
1,2-Dichloropropane	ND	H	21	4.3	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Dibromomethane	ND	H	110	23	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Bromodichloromethane	ND	H	71	2.5	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
2-Chloroethyl vinyl ether	ND	H	350	11	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
cis-1,3-Dichloropropene	ND	H	28	3.2	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
4-Methyl-2-pentanone	ND	H	350	52	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Toluene	**4.8**	**J H**	71	4.6	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
trans-1,3-Dichloropropene	ND	H	71	12	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
1,1,2-Trichloroethane	ND	H	21	5.0	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Tetrachloroethene	ND	H	35	9.4	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
2-Hexanone	ND	H	350	63	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Chlorodibromomethane	ND	H	35	5.0	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
1,2-Dibromoethane	ND	H	28	6.0	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Chlorobenzene	ND	H	71	17	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
1,1,1,2-Tetrachloroethane	ND	H	71	6.7	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Ethylbenzene	**4.0**	**J H**	71	3.5	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
m-Xylene & p-Xylene	ND	H	71	5.3	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
o-Xylene	ND	H	71	5.3	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Styrene	ND	H	71	4.3	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Bromoform	ND	H	71	12	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
Isopropylbenzene	ND	H	71	4.6	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
1,1,2,2-Tetrachloroethane	ND	H	18	4.1	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
1,2,3-Trichloropropane	ND	H	71	20	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
trans-1,4-Dichloro-2-butene	ND	H	350	28	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1
t-Butylbenzene	ND	H	71	5.5	ug/Kg	☼	10/12/15 10:34	10/12/15 17:13	1

Client Sample ID: MW-3-21-A

Date Collected: 09/29/15 14:42
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-14

Matrix: Solid
Percent Solids: 72.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*100*		*65 - 140*	*10/12/15 10:34*	*10/12/15 17:13*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*10/12/15 10:34*	*10/12/15 17:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*71 - 136*	*10/12/15 10:34*	*10/12/15 17:13*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*	*10/12/15 10:34*	*10/12/15 17:13*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 132*	*10/12/15 10:34*	*10/12/15 17:13*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	H	44	20	ug/Kg	☼	10/12/15 10:34	10/22/15 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*98*		*65 - 140*	*10/12/15 10:34*	*10/22/15 15:32*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*10/12/15 10:34*	*10/22/15 15:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*	*10/12/15 10:34*	*10/22/15 15:32*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 120*	*10/12/15 10:34*	*10/22/15 15:32*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 132*	*10/12/15 10:34*	*10/22/15 15:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**2.3**	**J**	2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
2-Methylnaphthalene	**1.5**	**J**	2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Dimethyl phthalate	ND		13	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Acenaphthylene	ND		2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Acenaphthene	ND		2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Diethyl phthalate	**18**	**J B**	27	2.0	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Fluorene	ND		2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Phenanthrene	**3.2**		2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Anthracene	**0.81**	**J**	2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Di-n-butyl phthalate	**23**	**J**	66	6.6	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Fluoranthene	**7.1**		2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Pyrene	**7.0**		2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Butyl benzyl phthalate	**33**	**B**	27	6.6	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Benzo[a]anthracene	**4.4**		2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Chrysene	**4.9**		3.3	0.66	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1
Bis(2-ethylhexyl) phthalate	**220**	**B**	80	6.6	ug/Kg	☼	10/10/15 14:08	10/21/15 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*115*		*42 - 151*	*10/10/15 14:08*	*10/21/15 07:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	**2.8**	**J**	66	0.66	ug/Kg	☼	10/10/15 14:08	10/25/15 17:17	1
Benzo[b]fluoranthene	**6.2**		2.7	0.66	ug/Kg	☼	10/10/15 14:08	10/25/15 17:17	1
Benzo[k]fluoranthene	**2.2**	**J**	3.3	0.66	ug/Kg	☼	10/10/15 14:08	10/25/15 17:17	1
Benzo[a]pyrene	**3.9**	**J**	4.0	0.66	ug/Kg	☼	10/10/15 14:08	10/25/15 17:17	1
Indeno[1,2,3-cd]pyrene	**2.5**	**J**	5.3	0.66	ug/Kg	☼	10/10/15 14:08	10/25/15 17:17	1
Dibenz(a,h)anthracene	ND		5.3	0.66	ug/Kg	☼	10/10/15 14:08	10/25/15 17:17	1
Benzo[g,h,i]perylene	**2.3**	**J**	3.3	0.66	ug/Kg	☼	10/10/15 14:08	10/25/15 17:17	1

Client Sample ID: MW-3-21-A
Date Collected: 09/29/15 14:42
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-14
Matrix: Solid
Percent Solids: 72.1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**1.2**	**J H**	7.1	0.89	mg/Kg	☼	10/13/15 15:51	10/14/15 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*	*10/13/15 15:51*	*10/14/15 00:50*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.28	0.041	ug/Kg	☼	10/10/15 13:26	11/19/15 04:03	1
2,4'-DDE	ND		0.28	0.041	ug/Kg	☼	10/10/15 13:26	11/19/15 04:03	1
2,4'-DDT	ND		0.28	0.041	ug/Kg	☼	10/10/15 13:26	11/19/15 04:03	1
4,4'-DDD	**0.063**	**J**	0.28	0.020	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
4,4'-DDE	**0.059**	**J**	0.28	0.019	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
4,4'-DDT	**0.088**	**J**	0.28	0.021	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Aldrin	ND		0.14	0.031	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
alpha-BHC	ND		0.14	0.038	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
alpha-Chlordane	ND		0.14	0.019	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
beta-BHC	**0.095**	**J**	0.14	0.045	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Chlordane (technical)	ND		1.4	0.19	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
cis-Nonachlor	ND		0.28	0.027	ug/Kg	☼	10/10/15 13:26	11/19/15 04:03	1
delta-BHC	ND		0.14	0.020	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Dieldrin	ND		0.28	0.016	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Endosulfan I	**0.029**	**J**	0.14	0.014	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Endosulfan II	ND		0.28	0.024	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Endosulfan sulfate	**0.066**	**J**	0.28	0.026	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Endrin	ND		0.28	0.023	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Endrin aldehyde	ND		0.28	0.027	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Endrin ketone	**0.51**	**B**	0.28	0.036	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
gamma-BHC (Lindane)	ND		0.14	0.041	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
gamma-Chlordane	**0.12**	**J**	0.14	0.019	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Heptachlor	ND		0.28	0.064	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Heptachlor epoxide	**0.0082**	**J B**	0.14	0.00041	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
Methoxychlor	**0.17**	**J**	1.4	0.036	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
oxy-Chlordane	ND		0.28	0.041	ug/Kg	☼	10/10/15 13:26	11/19/15 04:03	1
Toxaphene	ND		14	3.2	ug/Kg	☼	10/10/15 13:26	10/22/15 21:22	1
trans-Nonachlor	ND		0.28	0.041	ug/Kg	☼	10/10/15 13:26	11/19/15 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*	*X*	*60 - 128*	*10/10/15 13:26*	*10/22/15 21:22*	*1*
DCB Decachlorobiphenyl	*56*	*X*	*60 - 128*	*10/10/15 13:26*	*10/22/15 21:22*	*1*
DCB Decachlorobiphenyl	*28*	*X*	*60 - 128*	*10/10/15 13:26*	*11/19/15 04:03*	*1*
DCB Decachlorobiphenyl	*43*	*X*	*60 - 128*	*10/10/15 13:26*	*11/19/15 04:03*	*1*
Tetrachloro-m-xylene	*56*		*35 - 129*	*10/10/15 13:26*	*10/22/15 21:22*	*1*
Tetrachloro-m-xylene	*72*		*35 - 129*	*10/10/15 13:26*	*10/22/15 21:22*	*1*
Tetrachloro-m-xylene	*50*		*35 - 129*	*10/10/15 13:26*	*11/19/15 04:03*	*1*
Tetrachloro-m-xylene	*64*		*35 - 129*	*10/10/15 13:26*	*11/19/15 04:03*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.4	0.069	ug/Kg	☼	10/10/15 13:26	10/20/15 21:59	1
PCB-1221	ND		1.5	0.47	ug/Kg	☼	10/10/15 13:26	10/20/15 21:59	1

Client Sample ID: MW-3-21-A

Date Collected: 09/29/15 14:42
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-14

Matrix: Solid
Percent Solids: 72.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		1.5	0.30	ug/Kg	☼	10/10/15 13:26	10/20/15 21:59	1
PCB-1242	ND		1.4	0.29	ug/Kg	☼	10/10/15 13:26	10/20/15 21:59	1
PCB-1248	ND		1.5	0.22	ug/Kg	☼	10/10/15 13:26	10/20/15 21:59	1
PCB-1254	ND		1.4	0.12	ug/Kg	☼	10/10/15 13:26	10/20/15 21:59	1
PCB-1260	ND		1.4	0.18	ug/Kg	☼	10/10/15 13:26	10/20/15 21:59	1
PCB-1262	ND		1.4	0.26	ug/Kg	☼	10/10/15 13:26	10/20/15 21:59	1
PCB-1268	ND		1.4	0.29	ug/Kg	☼	10/10/15 13:26	10/20/15 21:59	1
Polychlorinated biphenyls, Total	ND		1.5	0.47	ug/Kg	☼	10/10/15 13:26	10/20/15 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*50 - 140*	*10/10/15 13:26*	*10/20/15 21:59*	*1*
Tetrachloro-m-xylene	*77*		*45 - 135*	*10/10/15 13:26*	*10/20/15 21:59*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		33	4.8	mg/Kg	☼	10/11/15 08:58	10/12/15 19:12	1
Motor Oil (>C24-C36)	ND		67	12	mg/Kg	☼	10/11/15 08:58	10/12/15 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*10/11/15 08:58*	*10/12/15 19:12*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		20	20	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Antimony	**0.48**		0.13	0.028	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Arsenic	**7.7**		0.33	0.12	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Barium	**160**		0.33	0.052	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Cadmium	**1.1**		0.13	0.013	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Chromium	**20**	**B**	0.33	0.042	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Copper	**28**		0.27	0.065	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Lead	**12**		0.33	0.032	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Magnesium	**6700**		67	1.8	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Nickel	**23**		0.33	0.054	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Silver	**0.072**	**J**	0.13	0.0080	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5
Zinc	**84**		3.3	0.75	mg/Kg	☼	10/14/15 10:26	10/14/15 16:29	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**J**	0.025	0.0076	mg/Kg	☼	10/13/15 07:02	10/13/15 11:26	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.11**				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**480**	**J**	2000	44	mg/Kg			10/12/15 15:10	1
TOC Result 2	**510**	**J**	2000	44	mg/Kg			10/12/15 15:10	1
TOC Result 1	**460**	**J**	2000	44	mg/Kg			10/12/15 15:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**72**		0.10	0.10	%			10/09/15 17:13	1
Percent Moisture	**28**		0.10	0.10	%			10/09/15 17:13	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-202332/1-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	170	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Acrolein	ND		1200	91	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Acrylonitrile	ND		400	96	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
2-Butanone	ND		400	52	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Bromomethane	ND		140	13	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Carbon disulfide	ND		40	4.4	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Benzene	ND		16	3.5	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Chloroethane	ND		400	16	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Chloroform	ND		40	4.2	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Chloromethane	ND		100	10	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Dibromomethane	ND		60	13	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Iodomethane	ND		200	6.3	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
2-Hexanone	ND		200	36	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Methylene Chloride	41.6		25	12	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Ethylbenzene	ND		40	2.0	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Tetrachloroethene	ND		20	5.3	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Toluene	ND		40	2.6	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
o-Xylene	ND		40	3.0	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Styrene	ND		40	2.4	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Bromoform	ND		40	6.5	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Isopropylbenzene	ND		40	2.6	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Trichloroethene	ND		24	3.1	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
t-Butylbenzene	ND		40	3.1	ug/Kg		10/02/15 10:04	10/02/15 13:58	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-202332/1-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		200	46	ug/Kg		10/02/15 10:04	10/02/15 13:58	1
Vinyl chloride	ND		16	7.1	ug/Kg		10/02/15 10:04	10/02/15 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*71 - 136*	*10/02/15 10:04*	*10/02/15 13:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*	*10/02/15 10:04*	*10/02/15 13:58*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*10/02/15 10:04*	*10/02/15 13:58*	*1*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/02/15 10:04*	*10/02/15 13:58*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/02/15 10:04*	*10/02/15 13:58*	*1*

Lab Sample ID: LCS 580-202332/2-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3200	2880		ug/Kg		90	20 - 160
Acrolein	4750	3800		ug/Kg		80	10 - 125
Acrylonitrile	8010	7640		ug/Kg		95	74 - 117
1,1-Dichloroethane	800	801		ug/Kg		100	70 - 128
2-Butanone	3200	2640		ug/Kg		83	30 - 160
Bromochloromethane	802	806		ug/Kg		101	78 - 123
Bromomethane	801	733		ug/Kg		91	57 - 148
Carbon disulfide	804	748		ug/Kg		93	45 - 160
1,1,1-Trichloroethane	803	792		ug/Kg		99	63 - 135
Carbon tetrachloride	802	775		ug/Kg		97	59 - 145
Benzene	803	780		ug/Kg		97	70 - 128
1,2-Dichloroethane	801	775		ug/Kg		97	71 - 128
Chloroethane	802	748		ug/Kg		93	48 - 167
Chloroform	800	802		ug/Kg		100	78 - 125
1,2-Dichloropropane	801	776		ug/Kg		97	76 - 161
Chloromethane	803	650		ug/Kg		81	55 - 136
cis-1,2-Dichloroethene	801	790		ug/Kg		99	70 - 130
Bromodichloromethane	803	795		ug/Kg		99	58 - 133
2-Chloroethyl vinyl ether	800	742		ug/Kg		93	60 - 150
cis-1,3-Dichloropropene	802	809		ug/Kg		101	69 - 129
Dibromomethane	803	775		ug/Kg		97	78 - 126
4-Methyl-2-pentanone	3200	2930		ug/Kg		92	45 - 145
Dichlorodifluoromethane	802	586		ug/Kg		73	38 - 150
Iodomethane	803	783		ug/Kg		97	44 - 148
1,1,2-Trichloroethane	802	795		ug/Kg		99	77 - 124
Methyl tert-butyl ether	801	778		ug/Kg		97	65 - 125
2-Hexanone	3200	2820		ug/Kg		88	45 - 145
Methylene Chloride	804	845		ug/Kg		105	57 - 146
Chlorodibromomethane	801	825		ug/Kg		103	42 - 129
1,2-Dibromoethane	801	788		ug/Kg		98	69 - 126
Chlorobenzene	803	814		ug/Kg		101	75 - 120
1,1,1,2-Tetrachloroethane	803	839		ug/Kg		104	72 - 123
Ethylbenzene	803	809		ug/Kg		101	78 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-202332/2-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	802	802		ug/Kg		100	56 - 155
m-Xylene & p-Xylene	802	810		ug/Kg		101	78 - 126
Toluene	801	799		ug/Kg		100	75 - 126
o-Xylene	801	823		ug/Kg		103	77 - 127
Styrene	801	831		ug/Kg		104	79 - 127
trans-1,2-Dichloroethene	802	782		ug/Kg		97	76 - 131
Bromoform	802	728		ug/Kg		91	50 - 124
trans-1,3-Dichloropropene	801	801		ug/Kg		100	72 - 129
Isopropylbenzene	801	846		ug/Kg		106	79 - 127
1,1,2,2-Tetrachloroethane	801	773		ug/Kg		96	73 - 125
Trichloroethene	802	787		ug/Kg		98	83 - 124
1,2,3-Trichloropropane	801	759		ug/Kg		95	77 - 123
Trichlorofluoromethane	801	735		ug/Kg		92	47 - 165
trans-1,4-Dichloro-2-butene	800	776		ug/Kg		97	42 - 160
t-Butylbenzene	800	860		ug/Kg		107	71 - 136
Vinyl acetate	2000	1790		ug/Kg		89	19 - 144
Vinyl chloride	805	750		ug/Kg		93	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*96*		*65 - 140*
Dibromofluoromethane (Surr)	*102*		*75 - 132*

Lab Sample ID: LCSD 580-202332/3-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202332

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3200	3000		ug/Kg		94	20 - 160	4	30
Acrolein	4750	3980		ug/Kg		84	10 - 125	4	30
Acrylonitrile	8010	7050		ug/Kg		88	74 - 117	8	30
1,1-Dichloroethane	800	803		ug/Kg		100	70 - 128	0	21
2-Butanone	3200	2950		ug/Kg		92	30 - 160	11	30
Bromochloromethane	802	846		ug/Kg		106	78 - 123	5	19
Bromomethane	801	715		ug/Kg		89	57 - 148	2	29
Carbon disulfide	804	739		ug/Kg		92	45 - 160	1	30
1,1,1-Trichloroethane	803	788		ug/Kg		98	63 - 135	0	20
Carbon tetrachloride	802	763		ug/Kg		95	59 - 145	2	19
Benzene	803	803		ug/Kg		100	70 - 128	3	19
1,2-Dichloroethane	801	816		ug/Kg		102	71 - 128	5	18
Chloroethane	802	752		ug/Kg		94	48 - 167	1	53
Chloroform	800	809		ug/Kg		101	78 - 125	1	17
1,2-Dichloropropane	801	826		ug/Kg		103	76 - 161	6	15
Chloromethane	803	661		ug/Kg		82	55 - 136	2	26
cis-1,2-Dichloroethene	801	802		ug/Kg		100	70 - 130	1	19
Bromodichloromethane	803	854		ug/Kg		106	58 - 133	7	19

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-202332/3-A
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202332

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloroethyl vinyl ether			800	894		ug/Kg		112	60 - 150	19	30
cis-1,3-Dichloropropene			802	843		ug/Kg		105	69 - 129	4	19
Dibromomethane			803	835		ug/Kg		104	78 - 126	7	18
4-Methyl-2-pentanone			3200	3430		ug/Kg		107	45 - 145	16	30
Dichlorodifluoromethane			802	589		ug/Kg		74	38 - 150	1	26
Iodomethane			803	791		ug/Kg		98	44 - 148	1	30
1,1,2-Trichloroethane			802	879		ug/Kg		110	77 - 124	10	18
Methyl tert-butyl ether			801	828		ug/Kg		103	65 - 125	6	30
2-Hexanone			3200	3630		ug/Kg		114	45 - 145	25	30
Methylene Chloride			804	857		ug/Kg		107	57 - 146	1	21
Chlorodibromomethane			801	900		ug/Kg		112	42 - 129	9	23
1,2-Dibromoethane			801	882		ug/Kg		110	69 - 126	11	21
Chlorobenzene			803	837		ug/Kg		104	75 - 120	3	21
1,1,1,2-Tetrachloroethane			803	816		ug/Kg		102	72 - 123	3	20
Ethylbenzene			803	816		ug/Kg		102	78 - 126	1	23
Tetrachloroethene			802	786		ug/Kg		98	56 - 155	2	27
m-Xylene & p-Xylene			802	823		ug/Kg		103	78 - 126	2	23
Toluene			801	800		ug/Kg		100	75 - 126	0	19
o-Xylene			801	808		ug/Kg		101	77 - 127	2	22
Styrene			801	889		ug/Kg		111	79 - 127	7	21
trans-1,2-Dichloroethene			802	779		ug/Kg		97	76 - 131	0	18
Bromoform			802	834		ug/Kg		104	50 - 124	14	25
trans-1,3-Dichloropropene			801	889		ug/Kg		111	72 - 129	10	20
Isopropylbenzene			801	813		ug/Kg		101	79 - 127	4	20
1,1,2,2-Tetrachloroethane			801	884		ug/Kg		110	73 - 125	13	22
Trichloroethene			802	809		ug/Kg		101	83 - 124	3	17
1,2,3-Trichloropropane			801	861		ug/Kg		108	77 - 123	13	23
Trichlorofluoromethane			801	730		ug/Kg		91	47 - 165	1	54
trans-1,4-Dichloro-2-butene			800	939		ug/Kg		117	42 - 160	19	30
t-Butylbenzene			800	809		ug/Kg		101	71 - 136	6	27
Vinyl acetate			2000	2060		ug/Kg		103	19 - 144	14	30
Vinyl chloride			805	815		ug/Kg		101	67 - 131	8	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*71 - 136*
4-Bromofluorobenzene (Surr)	*103*		*70 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*96*		*65 - 140*
Dibromofluoromethane (Surr)	*101*		*75 - 132*

Lab Sample ID: 580-53747-3 MS
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: MW-3-4.5
Prep Type: Total/NA
Prep Batch: 202332

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		3300	4140		ug/Kg	☼	126	20 - 160
Acrolein	ND		4900	5370		ug/Kg	☼	110	10 - 125
Acrylonitrile	ND	F1	8250	9040		ug/Kg	☼	110	74 - 117

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-53747-3 MS
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: MW-3-4.5
Prep Type: Total/NA
Prep Batch: 202332

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		824	970		ug/Kg	☼	118	75 - 125
2-Butanone	ND		3300	3530		ug/Kg	☼	107	30 - 160
Bromochloromethane	ND		826	995		ug/Kg	☼	120	70 - 125
Bromomethane	ND		826	1020		ug/Kg	☼	124	30 - 160
Carbon disulfide	ND		828	975		ug/Kg	☼	118	45 - 160
1,1,1-Trichloroethane	ND		827	1010		ug/Kg	☼	122	70 - 135
Carbon tetrachloride	ND		826	984		ug/Kg	☼	119	65 - 135
Benzene	6.9	J	828	977		ug/Kg	☼	117	75 - 125
1,2-Dichloroethane	ND		825	962		ug/Kg	☼	117	70 - 135
Chloroethane	ND		827	989		ug/Kg	☼	120	40 - 155
Chloroform	ND		825	976		ug/Kg	☼	118	70 - 125
1,2-Dichloropropane	ND		825	965		ug/Kg	☼	117	70 - 120
Chloromethane	ND		828	909		ug/Kg	☼	110	50 - 130
cis-1,2-Dichloroethene	ND		826	962		ug/Kg	☼	117	65 - 125
Bromodichloromethane	ND		827	978		ug/Kg	☼	118	70 - 130
2-Chloroethyl vinyl ether	ND		825	1020		ug/Kg	☼	124	60 - 150
cis-1,3-Dichloropropene	ND		827	996		ug/Kg	☼	120	70 - 125
Dibromomethane	ND		827	988		ug/Kg	☼	119	75 - 130
4-Methyl-2-pentanone	ND		3300	4140		ug/Kg	☼	126	45 - 145
Dichlorodifluoromethane	ND		826	904		ug/Kg	☼	109	35 - 135
Iodomethane	ND		828	1010		ug/Kg	☼	122	44 - 148
1,1,2-Trichloroethane	ND		827	1030		ug/Kg	☼	125	60 - 125
Methyl tert-butyl ether	ND		826	934		ug/Kg	☼	113	59 - 137
2-Hexanone	ND		3300	4270		ug/Kg	☼	130	45 - 145
Methylene Chloride	28		828	953		ug/Kg	☼	112	55 - 140
Chlorodibromomethane	ND		826	1050		ug/Kg	☼	127	65 - 130
1,2-Dibromoethane	ND	F1	826	1040	F1	ug/Kg	☼	126	70 - 125
Chlorobenzene	ND		828	1010		ug/Kg	☼	122	75 - 125
1,1,1,2-Tetrachloroethane	ND	F1	828	1000		ug/Kg	☼	121	75 - 125
Ethylbenzene	ND		828	1010		ug/Kg	☼	122	75 - 125
Tetrachloroethene	ND		827	1010		ug/Kg	☼	122	65 - 140
m-Xylene & p-Xylene	4.6	J	827	1010		ug/Kg	☼	122	80 - 125
Toluene	38	J	825	1020		ug/Kg	☼	120	70 - 125
o-Xylene	ND		826	1000		ug/Kg	☼	121	75 - 125
Styrene	ND	F1	826	1060	F1	ug/Kg	☼	128	75 - 125
trans-1,2-Dichloroethene	ND		826	955		ug/Kg	☼	116	65 - 135
Bromoform	ND		827	983		ug/Kg	☼	119	55 - 135
trans-1,3-Dichloropropene	ND		825	1030		ug/Kg	☼	124	65 - 125
Isopropylbenzene	ND		825	1030		ug/Kg	☼	124	75 - 130
1,1,2,2-Tetrachloroethane	ND		826	1060		ug/Kg	☼	128	55 - 130
Trichloroethene	ND		826	966		ug/Kg	☼	117	75 - 125
1,2,3-Trichloropropane	ND		825	1040		ug/Kg	☼	126	65 - 130
Trichlorofluoromethane	ND		825	995		ug/Kg	☼	121	25 - 185
trans-1,4-Dichloro-2-butene	ND		824	1070		ug/Kg	☼	130	42 - 160
t-Butylbenzene	ND		825	1030		ug/Kg	☼	125	65 - 130
Vinyl acetate	ND		2060	2490		ug/Kg	☼	121	19 - 144
Vinyl chloride	ND	F1	830	1220	F1	ug/Kg	☼	147	60 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-53747-3 MS
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: MW-3-4.5
Prep Type: Total/NA
Prep Batch: 202332

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		71 - 136
4-Bromofluorobenzene (Surr)	102		70 - 120
Toluene-d8 (Surr)	101		80 - 120
Trifluorotoluene (Surr)	98		65 - 140
Dibromofluoromethane (Surr)	99		75 - 132

Lab Sample ID: 580-53747-3 MSD
Matrix: Solid
Analysis Batch: 202343

Client Sample ID: MW-3-4.5
Prep Type: Total/NA
Prep Batch: 202332

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		3300	4390		ug/Kg	☼	133	20 - 160	6	30
Acrolein	ND		4900	5480		ug/Kg	☼	112	10 - 125	2	30
Acrylonitrile	ND	F1	8250	10700	F1	ug/Kg	☼	130	74 - 117	17	30
1,1-Dichloroethane	ND		824	977		ug/Kg	☼	118	75 - 125	1	30
2-Butanone	ND		3300	3560		ug/Kg	☼	108	30 - 160	1	30
Bromochloromethane	ND		826	984		ug/Kg	☼	119	70 - 125	1	30
Bromomethane	ND		826	1060		ug/Kg	☼	129	30 - 160	4	30
Carbon disulfide	ND		828	978		ug/Kg	☼	118	45 - 160	0	30
1,1,1-Trichloroethane	ND		827	1010		ug/Kg	☼	122	70 - 135	0	30
Carbon tetrachloride	ND		826	983		ug/Kg	☼	119	65 - 135	0	30
Benzene	6.9	J	828	955		ug/Kg	☼	115	75 - 125	2	30
1,2-Dichloroethane	ND		825	953		ug/Kg	☼	116	70 - 135	1	30
Chloroethane	ND		827	1010		ug/Kg	☼	123	40 - 155	2	30
Chloroform	ND		825	976		ug/Kg	☼	118	70 - 125	0	30
1,2-Dichloropropane	ND		825	932		ug/Kg	☼	113	70 - 120	4	30
Chloromethane	ND		828	936		ug/Kg	☼	113	50 - 130	3	30
cis-1,2-Dichloroethene	ND		826	967		ug/Kg	☼	117	65 - 125	1	30
Bromodichloromethane	ND		827	968		ug/Kg	☼	117	70 - 130	1	30
2-Chloroethyl vinyl ether	ND		825	972		ug/Kg	☼	118	60 - 150	5	30
cis-1,3-Dichloropropene	ND		827	999		ug/Kg	☼	121	70 - 125	0	30
Dibromomethane	ND		827	964		ug/Kg	☼	117	75 - 130	2	30
4-Methyl-2-pentanone	ND		3300	4210		ug/Kg	☼	128	45 - 145	2	30
Dichlorodifluoromethane	ND		826	916		ug/Kg	☼	111	35 - 135	1	30
Iodomethane	ND		828	1010		ug/Kg	☼	122	44 - 148	1	30
1,1,2-Trichloroethane	ND		827	1010		ug/Kg	☼	123	60 - 125	2	30
Methyl tert-butyl ether	ND		826	1000		ug/Kg	☼	121	59 - 137	7	30
2-Hexanone	ND		3300	4020		ug/Kg	☼	122	45 - 145	6	30
Methylene Chloride	28		828	957		ug/Kg	☼	112	55 - 140	0	30
Chlorodibromomethane	ND		826	1040		ug/Kg	☼	126	65 - 130	1	30
1,2-Dibromoethane	ND	F1	826	1020		ug/Kg	☼	123	70 - 125	2	30
Chlorobenzene	ND		828	987		ug/Kg	☼	119	75 - 125	2	30
1,1,1,2-Tetrachloroethane	ND	F1	828	1050	F1	ug/Kg	☼	127	75 - 125	4	30
Ethylbenzene	ND		828	987		ug/Kg	☼	119	75 - 125	2	30
Tetrachloroethene	ND		827	981		ug/Kg	☼	119	65 - 140	2	30
m-Xylene & p-Xylene	4.6	J	827	996		ug/Kg	☼	120	80 - 125	2	30
Toluene	38	J	825	1020		ug/Kg	☼	119	70 - 125	1	30
o-Xylene	ND		826	1010		ug/Kg	☼	122	75 - 125	1	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-53747-3 MSD — **Client Sample ID: MW-3-4.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 202343 — **Prep Batch: 202332**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Styrene	ND	F1	826	1020		ug/Kg	☼	123	75 - 125	4	30
trans-1,2-Dichloroethene	ND		826	951		ug/Kg	☼	115	65 - 135	0	30
Bromoform	ND		827	957		ug/Kg	☼	116	55 - 135	3	30
trans-1,3-Dichloropropene	ND		825	990		ug/Kg	☼	120	65 - 125	4	30
Isopropylbenzene	ND		825	1040		ug/Kg	☼	126	75 - 130	1	30
1,1,2,2-Tetrachloroethane	ND		826	1060		ug/Kg	☼	129	55 - 130	0	30
Trichloroethene	ND		826	957		ug/Kg	☼	116	75 - 125	1	30
1,2,3-Trichloropropane	ND		825	1020		ug/Kg	☼	124	65 - 130	2	30
Trichlorofluoromethane	ND		825	1000		ug/Kg	☼	122	25 - 185	1	30
trans-1,4-Dichloro-2-butene	ND		824	992		ug/Kg	☼	120	42 - 160	8	30
t-Butylbenzene	ND		825	1040		ug/Kg	☼	127	65 - 130	1	30
Vinyl acetate	ND		2060	2540		ug/Kg	☼	123	19 - 144	2	30
Vinyl chloride	ND	F1	830	1170	F1	ug/Kg	☼	141	60 - 125	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*71 - 136*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Trifluorotoluene (Surr)	*96*		*65 - 140*
Dibromofluoromethane (Surr)	*101*		*75 - 132*

Lab Sample ID: MB 580-203073/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203054 — **Prep Batch: 203073**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	170	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acrolein	ND		1200	91	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acrylonitrile	ND		400	96	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Butanone	ND		400	52	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromomethane	ND		140	13	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Carbon disulfide	ND		40	4.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Benzene	ND		16	3.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloroethane	ND		400	16	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloroform	ND		40	4.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloromethane	ND		100	10	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Dibromomethane	ND		60	13	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/12/15 10:34	10/12/15 12:37	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Iodomethane	ND		200	6.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Hexanone	ND		200	36	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Ethylbenzene	ND		40	2.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Tetrachloroethene	ND		20	5.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Toluene	ND		40	2.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
o-Xylene	ND		40	3.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Styrene	ND		40	2.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromoform	ND		40	6.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Isopropylbenzene	ND		40	2.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Trichloroethene	ND		24	3.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
t-Butylbenzene	ND		40	3.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Vinyl acetate	ND		200	46	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Vinyl chloride	ND		16	7.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 136*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 120*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 132*	*10/12/15 10:34*	*10/12/15 12:37*	*1*

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3200	3760		ug/Kg		118	20 - 160
Acrolein	4750	4470		ug/Kg		94	10 - 125
Acrylonitrile	8010	8270		ug/Kg		103	74 - 117
1,1-Dichloroethane	800	724		ug/Kg		91	70 - 128
2-Butanone	3200	3530		ug/Kg		110	30 - 160
Bromochloromethane	802	712		ug/Kg		89	78 - 123
Bromomethane	801	563		ug/Kg		70	57 - 148
Carbon disulfide	804	725		ug/Kg		90	45 - 160

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	803	693		ug/Kg		86	63 - 135
Carbon tetrachloride	802	663		ug/Kg		83	59 - 145
Benzene	803	741		ug/Kg		92	70 - 128
1,2-Dichloroethane	801	699		ug/Kg		87	71 - 128
Chloroethane	802	591		ug/Kg		74	48 - 167
Chloroform	800	720		ug/Kg		90	78 - 125
1,2-Dichloropropane	801	724		ug/Kg		90	76 - 161
Chloromethane	803	687		ug/Kg		86	55 - 136
cis-1,2-Dichloroethene	801	695		ug/Kg		87	70 - 130
Bromodichloromethane	803	676		ug/Kg		84	58 - 133
2-Chloroethyl vinyl ether	800	841		ug/Kg		105	60 - 150
cis-1,3-Dichloropropene	802	762		ug/Kg		95	69 - 129
Dibromomethane	803	762		ug/Kg		95	78 - 126
4-Methyl-2-pentanone	3200	3720		ug/Kg		116	45 - 145
Dichlorodifluoromethane	802	617		ug/Kg		77	38 - 150
Iodomethane	803	716		ug/Kg		89	44 - 148
1,1,2-Trichloroethane	802	793		ug/Kg		99	77 - 124
Methyl tert-butyl ether	801	712		ug/Kg		89	65 - 125
2-Hexanone	3200	3740		ug/Kg		117	45 - 145
Chlorodibromomethane	801	758		ug/Kg		95	42 - 129
1,2-Dibromoethane	801	774		ug/Kg		97	69 - 126
Chlorobenzene	803	761		ug/Kg		95	75 - 120
1,1,1,2-Tetrachloroethane	803	709		ug/Kg		88	72 - 123
Ethylbenzene	803	773		ug/Kg		96	78 - 126
Tetrachloroethene	802	750		ug/Kg		94	56 - 155
m-Xylene & p-Xylene	802	796		ug/Kg		99	78 - 126
Toluene	801	783		ug/Kg		98	75 - 126
o-Xylene	801	777		ug/Kg		97	77 - 127
Styrene	801	782		ug/Kg		98	79 - 127
trans-1,2-Dichloroethene	802	667		ug/Kg		83	76 - 131
Bromoform	802	728		ug/Kg		91	50 - 124
trans-1,3-Dichloropropene	801	752		ug/Kg		94	72 - 129
Isopropylbenzene	801	784		ug/Kg		98	79 - 127
1,1,2,2-Tetrachloroethane	801	827		ug/Kg		103	73 - 125
Trichloroethene	802	714		ug/Kg		89	83 - 124
1,2,3-Trichloropropane	801	838		ug/Kg		105	77 - 123
Trichlorofluoromethane	801	702		ug/Kg		88	47 - 165
trans-1,4-Dichloro-2-butene	800	826		ug/Kg		103	42 - 160
t-Butylbenzene	800	814		ug/Kg		102	71 - 136
Vinyl acetate	2000	2080		ug/Kg		104	19 - 144
Vinyl chloride	805	572		ug/Kg		71	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 136*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*65 - 140*
Dibromofluoromethane (Surr)	*96*		*75 - 132*

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3200	2890		ug/Kg		90	20 - 160	26	30
Acrolein	4750	3790		ug/Kg		80	10 - 125	16	30
Acrylonitrile	8010	7080		ug/Kg		88	74 - 117	16	30
1,1-Dichloroethane	800	708		ug/Kg		88	70 - 128	2	21
2-Butanone	3200	2960		ug/Kg		93	30 - 160	18	30
Bromochloromethane	802	694		ug/Kg		87	78 - 123	3	19
Bromomethane	801	601		ug/Kg		75	57 - 148	6	29
Carbon disulfide	804	709		ug/Kg		88	45 - 160	2	30
1,1,1-Trichloroethane	803	677		ug/Kg		84	63 - 135	2	20
Carbon tetrachloride	802	681		ug/Kg		85	59 - 145	3	19
Benzene	803	744		ug/Kg		93	70 - 128	0	19
1,2-Dichloroethane	801	688		ug/Kg		86	71 - 128	2	18
Chloroethane	802	650		ug/Kg		81	48 - 167	9	53
Chloroform	800	709		ug/Kg		89	78 - 125	2	17
1,2-Dichloropropane	801	702		ug/Kg		88	76 - 161	3	15
Chloromethane	803	695		ug/Kg		87	55 - 136	1	26
cis-1,2-Dichloroethene	801	671		ug/Kg		84	70 - 130	4	19
Bromodichloromethane	803	672		ug/Kg		84	58 - 133	1	19
2-Chloroethyl vinyl ether	800	783		ug/Kg		98	60 - 150	7	30
cis-1,3-Dichloropropene	802	755		ug/Kg		94	69 - 129	1	19
Dibromomethane	803	731		ug/Kg		91	78 - 126	4	18
4-Methyl-2-pentanone	3200	3200		ug/Kg		100	45 - 145	15	30
Dichlorodifluoromethane	802	593		ug/Kg		74	38 - 150	4	26
Iodomethane	803	690		ug/Kg		86	44 - 148	4	30
1,1,2-Trichloroethane	802	769		ug/Kg		96	77 - 124	3	18
Methyl tert-butyl ether	801	687		ug/Kg		86	65 - 125	4	30
2-Hexanone	3200	3160		ug/Kg		99	45 - 145	17	30
Chlorodibromomethane	801	756		ug/Kg		94	42 - 129	0	23
1,2-Dibromoethane	801	746		ug/Kg		93	69 - 126	4	21
Chlorobenzene	803	747		ug/Kg		93	75 - 120	2	21
1,1,1,2-Tetrachloroethane	803	731		ug/Kg		91	72 - 123	3	20
Ethylbenzene	803	755		ug/Kg		94	78 - 126	2	23
Tetrachloroethene	802	747		ug/Kg		93	56 - 155	0	27
m-Xylene & p-Xylene	802	782		ug/Kg		98	78 - 126	2	23
Toluene	801	774		ug/Kg		97	75 - 126	1	19
o-Xylene	801	779		ug/Kg		97	77 - 127	0	22
Styrene	801	780		ug/Kg		97	79 - 127	0	21
trans-1,2-Dichloroethene	802	681		ug/Kg		85	76 - 131	2	18
Bromoform	802	716		ug/Kg		89	50 - 124	2	25
trans-1,3-Dichloropropene	801	736		ug/Kg		92	72 - 129	2	20
Isopropylbenzene	801	796		ug/Kg		99	79 - 127	1	20
1,1,2,2-Tetrachloroethane	801	743		ug/Kg		93	73 - 125	11	22
Trichloroethene	802	709		ug/Kg		89	83 - 124	1	17
1,2,3-Trichloropropane	801	735		ug/Kg		92	77 - 123	13	23
Trichlorofluoromethane	801	685		ug/Kg		86	47 - 165	2	54
trans-1,4-Dichloro-2-butene	800	763		ug/Kg		95	42 - 160	8	30
t-Butylbenzene	800	818		ug/Kg		102	71 - 136	1	27
Vinyl acetate	2000	1790		ug/Kg		89	19 - 144	15	30
Vinyl chloride	805	592		ug/Kg		74	67 - 131	3	22

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 136*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*102*		*65 - 140*
Dibromofluoromethane (Surr)	*96*		*75 - 132*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride - RA	22.8	J	25	12	ug/Kg		10/12/15 10:34	10/22/15 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr) - RA	*95*		*71 - 136*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
4-Bromofluorobenzene (Surr) - RA	*100*		*70 - 120*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Toluene-d8 (Surr) - RA	*103*		*80 - 120*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Trifluorotoluene (Surr) - RA	*96*		*65 - 140*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Dibromofluoromethane (Surr) - RA	*97*		*75 - 132*	*10/12/15 10:34*	*10/22/15 11:09*	*1*

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride - RA			804	799		ug/Kg		99	57 - 146		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - RA	*97*		*71 - 136*
4-Bromofluorobenzene (Surr) - RA	*100*		*70 - 120*
Toluene-d8 (Surr) - RA	*100*		*80 - 120*
Trifluorotoluene (Surr) - RA	*98*		*65 - 140*
Dibromofluoromethane (Surr) - RA	*100*		*75 - 132*

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride - RA			804	789		ug/Kg		98	57 - 146	1	21

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - RA	98		71 - 136
4-Bromofluorobenzene (Surr) - RA	101		70 - 120
Toluene-d8 (Surr) - RA	101		80 - 120
Trifluorotoluene (Surr) - RA	99		65 - 140
Dibromofluoromethane (Surr) - RA	99		75 - 132

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-202235/1-A
Matrix: Solid
Analysis Batch: 203464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Diethyl phthalate	8.09	J	20	1.5	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Fluorene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Anthracene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Pyrene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Butyl benzyl phthalate	5.44	J	20	5.0	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Chrysene	ND		2.5	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Bis(2-ethylhexyl) phthalate	5.97	J	60	5.0	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/01/15 12:45	10/15/15 18:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	117		42 - 151	10/01/15 12:45	10/15/15 18:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-202235/2-A
Matrix: Solid
Analysis Batch: 204119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	500	389		ug/Kg		78	62 - 112
2-Methylnaphthalene	500	392		ug/Kg		78	64 - 119
Dimethyl phthalate	500	471		ug/Kg		94	78 - 117
Acenaphthylene	500	446		ug/Kg		89	68 - 120
Acenaphthene	500	419		ug/Kg		84	68 - 116
Diethyl phthalate	500	425		ug/Kg		85	73 - 116
Fluorene	500	459		ug/Kg		92	70 - 121
Phenanthrene	500	431		ug/Kg		86	73 - 106
Anthracene	500	501		ug/Kg		100	73 - 116
Di-n-butyl phthalate	500	543		ug/Kg		109	66 - 140
Fluoranthene	500	514		ug/Kg		103	73 - 125
Pyrene	500	482		ug/Kg		96	70 - 120
Butyl benzyl phthalate	500	514		ug/Kg		103	69 - 142
Benzo[a]anthracene	500	479		ug/Kg		96	76 - 119
Chrysene	500	428		ug/Kg		86	75 - 114
Bis(2-ethylhexyl) phthalate	500	498		ug/Kg		100	62 - 144
Di-n-octyl phthalate	500	603		ug/Kg		121	65 - 141
Benzo[b]fluoranthene	500	492		ug/Kg		98	63 - 132
Benzo[k]fluoranthene	500	561		ug/Kg		112	63 - 119
Benzo[a]pyrene	500	485		ug/Kg		97	72 - 117
Indeno[1,2,3-cd]pyrene	500	283		ug/Kg		57	56 - 127
Dibenz(a,h)anthracene	500	290		ug/Kg		58	56 - 134
Benzo[g,h,i]perylene	500	284		ug/Kg		57	55 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*105*		*42 - 151*

Lab Sample ID: LCSD 580-202235/3-A
Matrix: Solid
Analysis Batch: 204119

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202235

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	500	383		ug/Kg		77	62 - 112	1	26
2-Methylnaphthalene	500	399		ug/Kg		80	64 - 119	2	27
Dimethyl phthalate	500	471		ug/Kg		94	78 - 117	0	30
Acenaphthylene	500	446		ug/Kg		89	68 - 120	0	28
Acenaphthene	500	415		ug/Kg		83	68 - 116	1	27
Diethyl phthalate	500	427		ug/Kg		85	73 - 116	0	26
Fluorene	500	465		ug/Kg		93	70 - 121	1	30
Phenanthrene	500	429		ug/Kg		86	73 - 106	1	28
Anthracene	500	503		ug/Kg		101	73 - 116	0	27
Di-n-butyl phthalate	500	536		ug/Kg		107	66 - 140	1	30
Fluoranthene	500	500		ug/Kg		100	73 - 125	3	30
Pyrene	500	475		ug/Kg		95	70 - 120	1	30
Butyl benzyl phthalate	500	539		ug/Kg		108	69 - 142	5	30
Benzo[a]anthracene	500	476		ug/Kg		95	76 - 119	1	27
Chrysene	500	438		ug/Kg		88	75 - 114	2	26
Bis(2-ethylhexyl) phthalate	500	504		ug/Kg		101	62 - 144	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-202235/3-A
Matrix: Solid
Analysis Batch: 204119

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-octyl phthalate			500	573		ug/Kg		115	65 - 141	5	30
Benzo[b]fluoranthene			500	484		ug/Kg		97	63 - 132	2	30
Benzo[k]fluoranthene			500	520		ug/Kg		104	63 - 119	8	30
Benzo[a]pyrene			500	489		ug/Kg		98	72 - 117	1	30
Indeno[1,2,3-cd]pyrene			500	458	*	ug/Kg		92	56 - 127	47	29
Dibenz(a,h)anthracene			500	452	*	ug/Kg		90	56 - 134	43	30
Benzo[g,h,i]perylene			500	485	*	ug/Kg		97	55 - 139	52	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*103*		*42 - 151*

Lab Sample ID: 580-53747-4 MS
Matrix: Solid
Analysis Batch: 203464

Client Sample ID: MW-3-1.5
Prep Type: Total/NA
Prep Batch: 202235

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	3.3	J	606	431		ug/Kg	☼	71	62 - 112
2-Methylnaphthalene	ND		606	518		ug/Kg	☼	86	64 - 119
Dimethyl phthalate	ND		606	591		ug/Kg	☼	98	78 - 117
Acenaphthylene	ND		606	555		ug/Kg	☼	91	68 - 120
Acenaphthene	ND		606	520		ug/Kg	☼	86	68 - 116
Diethyl phthalate	39	J B	606	587		ug/Kg	☼	90	73 - 116
Fluorene	ND		606	583		ug/Kg	☼	96	70 - 121
Phenanthrene	24		606	551		ug/Kg	☼	87	73 - 106
Anthracene	4.0	J	606	619		ug/Kg	☼	101	73 - 116
Di-n-butyl phthalate	34	J	606	704		ug/Kg	☼	111	66 - 140
Fluoranthene	51		606	768		ug/Kg	☼	118	73 - 125
Pyrene	51		606	732		ug/Kg	☼	112	70 - 120
Butyl benzyl phthalate	30	J B	606	588		ug/Kg	☼	92	69 - 142
Benzo[a]anthracene	26		606	633		ug/Kg	☼	100	76 - 119
Chrysene	34		606	610		ug/Kg	☼	95	75 - 114
Bis(2-ethylhexyl) phthalate	53	J B	606	609		ug/Kg	☼	92	62 - 144
Di-n-octyl phthalate	ND		606	629		ug/Kg	☼	104	65 - 141
Benzo[b]fluoranthene	53		606	736		ug/Kg	☼	113	63 - 132
Benzo[k]fluoranthene	17		606	696		ug/Kg	☼	112	63 - 119
Benzo[a]pyrene	31		606	705		ug/Kg	☼	111	72 - 117
Indeno[1,2,3-cd]pyrene	25	*	606	485		ug/Kg	☼	76	56 - 127
Dibenz(a,h)anthracene	5.6	J *	606	495		ug/Kg	☼	81	56 - 134
Benzo[g,h,i]perylene	29	*	606	495		ug/Kg	☼	77	55 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*128*		*42 - 151*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-53747-4 MSD
Matrix: Solid
Analysis Batch: 203464

Client Sample ID: MW-3-1.5
Prep Type: Total/NA
Prep Batch: 202235

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	3.3	J	620	443		ug/Kg	☼				
2-Methylnaphthalene	ND		620	514		ug/Kg	☼				
Dimethyl phthalate	ND		620	539		ug/Kg	☼				
Acenaphthylene	ND		620	508		ug/Kg	☼				
Acenaphthene	ND		620	475		ug/Kg	☼				
Diethyl phthalate	39	J B	620	506		ug/Kg	☼				
Fluorene	ND		620	523		ug/Kg	☼				
Phenanthrene	24		620	518		ug/Kg	☼				
Anthracene	4.0	J	620	556		ug/Kg	☼				
Di-n-butyl phthalate	34	J	620	631		ug/Kg	☼				
Fluoranthene	51		620	700		ug/Kg	☼				
Pyrene	51		620	653		ug/Kg	☼				
Butyl benzyl phthalate	30	J B	620	552		ug/Kg	☼				
Benzo[a]anthracene	26		620	578		ug/Kg	☼				
Chrysene	34		620	551		ug/Kg	☼				
Bis(2-ethylhexyl) phthalate	53	J B	620	580		ug/Kg	☼				
Di-n-octyl phthalate	ND		620	589		ug/Kg	☼				
Benzo[b]fluoranthene	53		620	664		ug/Kg	☼				
Benzo[k]fluoranthene	17		620	633		ug/Kg	☼				
Benzo[a]pyrene	31		620	620		ug/Kg	☼				
Indeno[1,2,3-cd]pyrene	25	*	620	421		ug/Kg	☼				
Dibenz(a,h)anthracene	5.6	J *	620	400		ug/Kg	☼				
Benzo[g,h,i]perylene	29	*	620	398		ug/Kg	☼				

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)			

Lab Sample ID: MB 580-202998/1-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Diethyl phthalate	19.7	J	20	1.5	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Fluorene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Anthracene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Pyrene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Butyl benzyl phthalate	30.6		20	5.0	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Chrysene	ND		2.5	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Bis(2-ethylhexyl) phthalate	14.1	J	60	5.0	ug/Kg		10/10/15 14:08	10/21/15 00:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-202998/1-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*99*		*42 - 151*	*10/10/15 14:08*	*10/21/15 00:18*	*1*

Lab Sample ID: LCS 580-202998/2-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	100	75.0		ug/Kg		75	62 - 112
2-Methylnaphthalene	100	79.8		ug/Kg		80	64 - 119
Dimethyl phthalate	100	88.4		ug/Kg		88	78 - 117
Acenaphthylene	100	82.3		ug/Kg		82	68 - 120
Acenaphthene	100	77.7		ug/Kg		78	68 - 116
Diethyl phthalate	100	101		ug/Kg		101	73 - 116
Fluorene	100	86.8		ug/Kg		87	70 - 121
Phenanthrene	100	79.2		ug/Kg		79	73 - 106
Anthracene	100	91.2		ug/Kg		91	73 - 116
Di-n-butyl phthalate	100	110		ug/Kg		110	66 - 140
Fluoranthene	100	93.8		ug/Kg		94	73 - 125
Pyrene	100	89.2		ug/Kg		89	70 - 120
Butyl benzyl phthalate	100	136		ug/Kg		136	69 - 142
Benzo[a]anthracene	100	92.5		ug/Kg		93	76 - 119
Chrysene	100	85.6		ug/Kg		86	75 - 114
Bis(2-ethylhexyl) phthalate	100	113		ug/Kg		113	62 - 144
Di-n-octyl phthalate	100	110		ug/Kg		110	65 - 141
Benzo[b]fluoranthene	100	90.6		ug/Kg		91	63 - 132
Benzo[k]fluoranthene	100	99.5		ug/Kg		100	63 - 119
Benzo[a]pyrene	100	91.9		ug/Kg		92	72 - 117
Indeno[1,2,3-cd]pyrene	100	85.5		ug/Kg		85	56 - 127
Dibenz(a,h)anthracene	100	94.2		ug/Kg		94	56 - 134
Benzo[g,h,i]perylene	100	96.7		ug/Kg		97	55 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*97*		*42 - 151*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-202998/3-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202998

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	100	74.0		ug/Kg		74	62 - 112	1	26
2-Methylnaphthalene	100	81.9		ug/Kg		82	64 - 119	3	27
Dimethyl phthalate	100	88.4		ug/Kg		88	78 - 117	0	30
Acenaphthylene	100	82.0		ug/Kg		82	68 - 120	0	28
Acenaphthene	100	77.0		ug/Kg		77	68 - 116	1	27
Diethyl phthalate	100	103		ug/Kg		103	73 - 116	2	26
Fluorene	100	86.3		ug/Kg		86	70 - 121	1	30
Phenanthrene	100	80.9		ug/Kg		81	73 - 106	2	28
Anthracene	100	94.6		ug/Kg		95	73 - 116	4	27
Di-n-butyl phthalate	100	121		ug/Kg		121	66 - 140	10	30
Fluoranthene	100	97.3		ug/Kg		97	73 - 125	4	30
Pyrene	100	91.2		ug/Kg		91	70 - 120	2	30
Butyl benzyl phthalate	100	142		ug/Kg		142	69 - 142	4	30
Benzo[a]anthracene	100	91.4		ug/Kg		91	76 - 119	1	27
Chrysene	100	86.3		ug/Kg		86	75 - 114	1	26
Bis(2-ethylhexyl) phthalate	100	112		ug/Kg		112	62 - 144	1	30
Di-n-octyl phthalate	100	112		ug/Kg		112	65 - 141	2	30
Benzo[b]fluoranthene	100	88.9		ug/Kg		89	63 - 132	2	30
Benzo[k]fluoranthene	100	105		ug/Kg		105	63 - 119	5	30
Benzo[a]pyrene	100	91.2		ug/Kg		91	72 - 117	1	30
Indeno[1,2,3-cd]pyrene	100	88.6		ug/Kg		89	56 - 127	4	29
Dibenz(a,h)anthracene	100	89.8		ug/Kg		90	56 - 134	5	30
Benzo[g,h,i]perylene	100	95.3		ug/Kg		95	55 - 139	1	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*100*		*42 - 151*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-202577/1-A
Matrix: Solid
Analysis Batch: 202593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	0.855	J	4.0	0.50	mg/Kg		10/06/15 13:42	10/06/15 15:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*	*10/06/15 13:42*	*10/06/15 15:34*	*1*

Lab Sample ID: LCS 580-202577/2-A
Matrix: Solid
Analysis Batch: 202593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	40.0	33.5		mg/Kg		84	68 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-202577/2-A
Matrix: Solid
Analysis Batch: 202593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202577

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		50 - 150

Lab Sample ID: LCSD 580-202577/3-A
Matrix: Solid
Analysis Batch: 202593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202577

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	34.5		mg/Kg		86	68 - 120	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		50 - 150

Lab Sample ID: MB 580-203228/1-A
Matrix: Solid
Analysis Batch: 203258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.50	mg/Kg		10/13/15 15:49	10/13/15 21:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150	10/13/15 15:49	10/13/15 21:31	1

Lab Sample ID: LCS 580-203228/2-A
Matrix: Solid
Analysis Batch: 203258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203228

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline			40.0	33.1		mg/Kg		83	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		50 - 150

Lab Sample ID: LCSD 580-203228/3-A
Matrix: Solid
Analysis Batch: 203258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203228

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	32.5		mg/Kg		81	68 - 120	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		50 - 150

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 580-202233/9-A
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.20	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
2,4'-DDE	ND		0.20	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
2,4'-DDT	ND		0.20	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
4,4'-DDD	ND		0.20	0.015	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
4,4'-DDT	ND		0.20	0.015	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Aldrin	ND		0.10	0.022	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
alpha-BHC	ND		0.10	0.028	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
beta-BHC	ND		0.10	0.032	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Chlordane (technical)	ND		1.0	0.14	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
cis-Nonachlor	ND		0.20	0.019	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
delta-BHC	ND		0.10	0.015	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Dieldrin	ND		0.20	0.012	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endosulfan II	ND		0.20	0.017	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endosulfan sulfate	ND		0.20	0.019	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endrin	ND		0.20	0.016	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endrin aldehyde	ND		0.20	0.020	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Endrin ketone	ND		0.20	0.026	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
gamma-BHC (Lindane)	ND		0.10	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Heptachlor	0.0490	J	0.20	0.046	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Heptachlor epoxide	ND		0.10	0.00030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Methoxychlor	ND		1.0	0.026	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
oxy-Chlordane	ND		0.20	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
Toxaphene	ND		10	2.3	ug/Kg		10/01/15 12:32	11/17/15 23:05	1
trans-Nonachlor	ND		0.20	0.030	ug/Kg		10/01/15 12:32	11/17/15 23:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*	*X*	*60 - 128*	*10/01/15 12:32*	*11/17/15 23:05*	*1*
DCB Decachlorobiphenyl	*70*		*60 - 128*	*10/01/15 12:32*	*11/17/15 23:05*	*1*
Tetrachloro-m-xylene	*66*		*35 - 129*	*10/01/15 12:32*	*11/17/15 23:05*	*1*
Tetrachloro-m-xylene	*63*		*35 - 129*	*10/01/15 12:32*	*11/17/15 23:05*	*1*

Lab Sample ID: LCS 580-202233/16-A
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202233

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlordane (technical)			1.00	1.33	*	ug/Kg		133	45 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*74*		*60 - 128*
Tetrachloro-m-xylene	*63*		*35 - 129*
Tetrachloro-m-xylene	*63*		*35 - 129*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 580-202233/17-A
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202233

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane (technical)			1.00	0.902	J	ug/Kg		90	45 - 131	38	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*48*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*67*		*60 - 128*
Tetrachloro-m-xylene	*64*		*35 - 129*
Tetrachloro-m-xylene	*61*		*35 - 129*

Lab Sample ID: 580-53747-1 MS
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: MW-9-2
Prep Type: Total/NA
Prep Batch: 202233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	1.2	H	6.05	5.00		ug/Kg	☼	62	48 - 136
4,4'-DDE	1.4	H	6.05	4.90		ug/Kg	☼	57	50 - 138
4,4'-DDT	1.4	H	6.05	5.06		ug/Kg	☼	60	53 - 132
Aldrin	ND	H	6.05	3.79		ug/Kg	☼	63	59 - 127
alpha-BHC	ND	H	6.05	4.49		ug/Kg	☼	74	48 - 132
alpha-Chlordane	ND	H	6.05	3.26		ug/Kg	☼	54	52 - 137
beta-BHC	ND	H	6.05	2.99		ug/Kg	☼	49	45 - 122
delta-BHC	ND	H	6.05	4.12		ug/Kg	☼	68	27 - 124
Dieldrin	ND	H	6.05	4.19		ug/Kg	☼	69	53 - 145
Endosulfan I	ND	H	6.05	3.57		ug/Kg	☼	59	57 - 140
Endosulfan II	ND	H	6.05	3.60		ug/Kg	☼	60	58 - 144
Endosulfan sulfate	ND	H	6.05	3.96		ug/Kg	☼	65	55 - 125
Endrin	ND	H F2 F1	6.05	8.76	F1	ug/Kg	☼	145	51 - 143
Endrin aldehyde	ND	H	6.05	4.79		ug/Kg	☼	79	45 - 130
Endrin ketone	ND	H	6.05	4.58		ug/Kg	☼	76	53 - 139
gamma-BHC (Lindane)	ND	H	6.05	4.07		ug/Kg	☼	67	47 - 127
gamma-Chlordane	ND	H	6.05	3.62		ug/Kg	☼	60	52 - 137
Heptachlor	ND	H	6.05	4.48		ug/Kg	☼	74	43 - 141
Heptachlor epoxide	ND	H	6.05	4.19		ug/Kg	☼	69	47 - 143
Methoxychlor	ND	H F1	6.05	6.04		ug/Kg	☼	100	56 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*79*		*60 - 128*
Tetrachloro-m-xylene	*69*		*35 - 129*
Tetrachloro-m-xylene	*70*		*35 - 129*

Lab Sample ID: 580-53747-1 MSD
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: MW-9-2
Prep Type: Total/NA
Prep Batch: 202233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	1.2	H	5.90	5.51		ug/Kg	☼	72	48 - 136	10	18
4,4'-DDE	1.4	H	5.90	5.43		ug/Kg	☼	68	50 - 138	10	17

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 580-53747-1 MSD
Matrix: Solid
Analysis Batch: 205885

Client Sample ID: MW-9-2
Prep Type: Total/NA
Prep Batch: 202233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDT	1.4	H	5.90	4.63		ug/Kg	☼	54	53 - 132	9	20
Aldrin	ND	H	5.90	3.92		ug/Kg	☼	67	59 - 127	4	19
alpha-BHC	ND	H	5.90	4.30		ug/Kg	☼	73	48 - 132	4	17
alpha-Chlordane	ND	H	5.90	3.69		ug/Kg	☼	62	52 - 137	12	17
beta-BHC	ND	H	5.90	3.09		ug/Kg	☼	52	45 - 122	3	18
delta-BHC	ND	H	5.90	4.20		ug/Kg	☼	71	27 - 124	2	19
Dieldrin	ND	H	5.90	4.35		ug/Kg	☼	74	53 - 145	4	18
Endosulfan I	ND	H	5.90	3.87		ug/Kg	☼	66	57 - 140	8	19
Endosulfan II	ND	H	5.90	3.88		ug/Kg	☼	66	58 - 144	7	19
Endosulfan sulfate	ND	H	5.90	3.79		ug/Kg	☼	64	55 - 125	4	18
Endrin	ND	H F2 F1	5.90	5.75	F2	ug/Kg	☼	97	51 - 143	41	18
Endrin aldehyde	ND	H	5.90	4.78		ug/Kg	☼	81	45 - 130	0	21
Endrin ketone	ND	H	5.90	4.48		ug/Kg	☼	76	53 - 139	2	17
gamma-BHC (Lindane)	ND	H	5.90	4.15		ug/Kg	☼	70	47 - 127	2	17
gamma-Chlordane	ND	H	5.90	3.65		ug/Kg	☼	62	52 - 137	1	17
Heptachlor	ND	H	5.90	4.63		ug/Kg	☼	78	43 - 141	3	18
Heptachlor epoxide	ND	H	5.90	4.27		ug/Kg	☼	72	47 - 143	2	17
Methoxychlor	ND	H F1	5.90	6.53		ug/Kg	☼	111	56 - 137	8	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*74*		*60 - 128*
Tetrachloro-m-xylene	*69*		*35 - 129*
Tetrachloro-m-xylene	*74*		*35 - 129*

Lab Sample ID: MB 580-202997/1-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.20	0.015	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
4,4'-DDT	ND		0.20	0.015	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Aldrin	ND		0.10	0.022	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
alpha-BHC	ND		0.10	0.028	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
beta-BHC	ND		0.10	0.032	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Chlordane (technical)	ND		1.0	0.14	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
delta-BHC	ND		0.10	0.015	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Dieldrin	0.0129	J	0.20	0.012	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endosulfan II	ND		0.20	0.017	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endosulfan sulfate	ND		0.20	0.019	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endrin	ND		0.20	0.016	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endrin aldehyde	ND		0.20	0.020	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endrin ketone	0.0486	J	0.20	0.026	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
gamma-BHC (Lindane)	ND		0.10	0.030	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/10/15 13:26	10/22/15 20:13	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-202997/1-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.0657	J	0.20	0.046	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Heptachlor epoxide	0.00600	J	0.10	0.00030	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Methoxychlor	ND		1.0	0.026	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Toxaphene	ND		10	2.3	ug/Kg		10/10/15 13:26	10/22/15 20:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*	*X*	*60 - 128*	*10/10/15 13:26*	*10/22/15 20:13*	*1*
Tetrachloro-m-xylene	*52*		*35 - 129*	*10/10/15 13:26*	*10/22/15 20:13*	*1*

Lab Sample ID: MB 580-202997/1-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.20	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
2,4'-DDE	ND		0.20	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
2,4'-DDT	ND		0.20	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
4,4'-DDD	ND		0.20	0.015	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
4,4'-DDT	ND		0.20	0.015	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Aldrin	ND		0.10	0.022	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
alpha-BHC	ND		0.10	0.028	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
beta-BHC	ND		0.10	0.032	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Chlordane (technical)	ND		1.0	0.14	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
cis-Nonachlor	ND		0.20	0.019	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
delta-BHC	ND		0.10	0.015	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Dieldrin	ND		0.20	0.012	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endosulfan II	ND		0.20	0.017	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endosulfan sulfate	ND		0.20	0.019	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endrin	ND		0.20	0.016	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endrin aldehyde	ND		0.20	0.020	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endrin ketone	ND		0.20	0.026	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
gamma-BHC (Lindane)	ND		0.10	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Heptachlor	ND		0.20	0.046	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Heptachlor epoxide	ND		0.10	0.00030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Methoxychlor	ND		1.0	0.026	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
oxy-Chlordane	ND		0.20	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Toxaphene	ND		10	2.3	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
trans-Nonachlor	ND		0.20	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*32*	*X*	*60 - 128*	*10/10/15 13:26*	*11/18/15 23:28*	*1*
DCB Decachlorobiphenyl	*51*	*X*	*60 - 128*	*10/10/15 13:26*	*11/18/15 23:28*	*1*
Tetrachloro-m-xylene	*47*		*35 - 129*	*10/10/15 13:26*	*11/18/15 23:28*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-202997/1-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202997

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	46		35 - 129	10/10/15 13:26	11/18/15 23:28	1

Lab Sample ID: LCS 580-202997/2-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.00	3.37		ug/Kg		67	48 - 136
4,4'-DDE	5.00	3.27		ug/Kg		65	50 - 138
4,4'-DDT	5.00	3.59		ug/Kg		72	53 - 132
Aldrin	5.00	2.98		ug/Kg		60	59 - 127
alpha-BHC	5.00	3.01		ug/Kg		60	48 - 132
alpha-Chlordane	5.00	3.16		ug/Kg		63	52 - 137
beta-BHC	5.00	2.93		ug/Kg		59	45 - 122
delta-BHC	5.00	3.31		ug/Kg		66	27 - 124
Dieldrin	5.00	3.38		ug/Kg		68	53 - 145
Endosulfan I	5.00	3.12		ug/Kg		62	57 - 140
Endosulfan II	5.00	3.45		ug/Kg		69	58 - 144
Endosulfan sulfate	5.00	3.20		ug/Kg		64	55 - 125
Endrin	5.00	3.36		ug/Kg		67	51 - 143
Endrin aldehyde	5.00	4.19		ug/Kg		84	45 - 130
Endrin ketone	5.00	3.29		ug/Kg		66	53 - 139
gamma-BHC (Lindane)	5.00	2.97		ug/Kg		59	47 - 127
gamma-Chlordane	5.00	3.22		ug/Kg		64	52 - 137
Heptachlor	5.00	3.55		ug/Kg		71	43 - 141
Heptachlor epoxide	5.00	3.12		ug/Kg		62	47 - 143
Methoxychlor	5.00	3.86		ug/Kg		77	56 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	43	X	60 - 128
Tetrachloro-m-xylene	56		35 - 129

Lab Sample ID: LCS 580-202997/6-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	500	179	E *	ug/Kg		36	48 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	41	X	60 - 128
Tetrachloro-m-xylene	49		35 - 129

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 580-202997/8-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202997

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlordane (technical)			25.0	17.6		ug/Kg		70	45 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*42*	*X*	*60 - 128*
Tetrachloro-m-xylene	*58*		*35 - 129*

Lab Sample ID: LCS 580-202997/8-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202997

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlordane (technical)			25.0	21.1		ug/Kg		85	45 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*36*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*56*	*X*	*60 - 128*
Tetrachloro-m-xylene	*50*		*35 - 129*
Tetrachloro-m-xylene	*49*		*35 - 129*

Lab Sample ID: LCSD 580-202997/3-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202997

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			5.00	3.49		ug/Kg		70	48 - 136	4	18
4,4'-DDE			5.00	3.38		ug/Kg		68	50 - 138	3	17
4,4'-DDT			5.00	3.69		ug/Kg		74	53 - 132	3	20
Aldrin			5.00	3.12		ug/Kg		62	59 - 127	5	19
alpha-BHC			5.00	3.08		ug/Kg		62	48 - 132	2	17
alpha-Chlordane			5.00	3.31		ug/Kg		66	52 - 137	5	17
beta-BHC			5.00	3.01		ug/Kg		60	45 - 122	3	18
delta-BHC			5.00	3.36		ug/Kg		67	27 - 124	2	19
Dieldrin			5.00	3.45		ug/Kg		69	53 - 145	2	18
Endosulfan I			5.00	3.21		ug/Kg		64	57 - 140	3	19
Endosulfan II			5.00	3.59		ug/Kg		72	58 - 144	4	19
Endosulfan sulfate			5.00	3.22		ug/Kg		64	55 - 125	1	18
Endrin			5.00	3.46		ug/Kg		69	51 - 143	3	18
Endrin aldehyde			5.00	4.41		ug/Kg		88	45 - 130	5	21
Endrin ketone			5.00	3.32		ug/Kg		66	53 - 139	1	17
gamma-BHC (Lindane)			5.00	3.00		ug/Kg		60	47 - 127	1	17
gamma-Chlordane			5.00	3.35		ug/Kg		67	52 - 137	4	17
Heptachlor			5.00	3.75		ug/Kg		75	43 - 141	5	18
Heptachlor epoxide			5.00	3.19		ug/Kg		64	47 - 143	2	17
Methoxychlor			5.00	3.80		ug/Kg		76	56 - 137	2	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*43*	*X*	*60 - 128*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 580-202997/3-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202997

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	56		35 - 129

Lab Sample ID: LCSD 580-202997/7-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202997

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene			500	180	E *	ug/Kg		36	48 - 141	1	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	41	X	60 - 128
Tetrachloro-m-xylene	52		35 - 129

Lab Sample ID: LCSD 580-202997/9-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202997

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane (technical)			25.0	17.6		ug/Kg		70	45 - 131	0	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	44	X	60 - 128
Tetrachloro-m-xylene	58		35 - 129

Lab Sample ID: LCSD 580-202997/9-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202997

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane (technical)			25.0	22.8		ug/Kg		91	45 - 131	8	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	38	X	60 - 128
DCB Decachlorobiphenyl	60		60 - 128
Tetrachloro-m-xylene	53		35 - 129
Tetrachloro-m-xylene	55		35 - 129

Lab Sample ID: 580-53747-7 MS
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: MW-9-19-A
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.028	J B	6.58	4.45		ug/Kg	☼	67	48 - 136
4,4'-DDE	ND	F1	6.58	4.53		ug/Kg	☼	69	50 - 138
4,4'-DDT	ND	F1 F2	6.58	3.96		ug/Kg	☼	60	53 - 132
Aldrin	ND	F1	6.58	4.24		ug/Kg	☼	64	59 - 127
alpha-BHC	ND		6.58	4.44		ug/Kg	☼	67	48 - 132

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 580-53747-7 MS
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: MW-9-19-A
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-Chlordane	ND	F1	6.58	3.29	F1	ug/Kg	☼	50	52 - 137
beta-BHC	ND	F1	6.58	4.23		ug/Kg	☼	64	45 - 122
delta-BHC	ND	F1 F2	6.58	4.42		ug/Kg	☼	67	27 - 124
Dieldrin	ND	F1	6.58	4.69		ug/Kg	☼	71	53 - 145
Endosulfan I	ND	F1	6.58	4.27		ug/Kg	☼	65	57 - 140
Endosulfan II	ND		6.58	4.95		ug/Kg	☼	75	58 - 144
Endosulfan sulfate	ND	F1 F2	6.58	4.88		ug/Kg	☼	74	55 - 125
Endrin	ND	F1	6.58	ND	F1	ug/Kg	☼	0	51 - 143
Endrin aldehyde	ND		6.58	4.93		ug/Kg	☼	75	45 - 130
Endrin ketone	0.12	J B	6.58	4.71		ug/Kg	☼	70	53 - 139
gamma-BHC (Lindane)	ND	F1 F2	6.58	4.34		ug/Kg	☼	66	47 - 127
gamma-Chlordane	0.064	J	6.58	4.27		ug/Kg	☼	64	52 - 137
Heptachlor	0.10	J B	6.58	4.39		ug/Kg	☼	65	43 - 141
Heptachlor epoxide	0.0078	J B F1	6.58	ND	F1	ug/Kg	☼	0	47 - 143
Methoxychlor	0.11	J F1	6.58	4.29		ug/Kg	☼	63	56 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0.2*	*X*	*60 - 128*
Tetrachloro-m-xylene	*67*		*35 - 129*

Lab Sample ID: 580-53747-7 MSD
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: MW-9-19-A
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.028	J B	6.82	3.84		ug/Kg	☼	56	48 - 136	15	18
4,4'-DDE	ND	F1	6.82	4.18		ug/Kg	☼	61	50 - 138	8	17
4,4'-DDT	ND	F1 F2	6.82	3.47	F1	ug/Kg	☼	51	53 - 132	13	20
Aldrin	ND	F1	6.82	3.76	F1	ug/Kg	☼	55	59 - 127	12	19
alpha-BHC	ND		6.82	3.94		ug/Kg	☼	58	48 - 132	12	17
alpha-Chlordane	ND	F1	6.82	3.10	F1	ug/Kg	☼	46	52 - 137	6	17
beta-BHC	ND	F1	6.82	3.70		ug/Kg	☼	54	45 - 122	13	18
delta-BHC	ND	F1 F2	6.82	4.01		ug/Kg	☼	59	27 - 124	10	19
Dieldrin	ND	F1	6.82	4.26		ug/Kg	☼	63	53 - 145	10	18
Endosulfan I	ND	F1	6.82	3.79	F1	ug/Kg	☼	56	57 - 140	12	19
Endosulfan II	ND		6.82	4.36		ug/Kg	☼	64	58 - 144	13	19
Endosulfan sulfate	ND	F1 F2	6.82	4.19		ug/Kg	☼	61	55 - 125	15	18
Endrin	ND	F1	6.82	4.25		ug/Kg	☼	62	51 - 143	NC	18
Endrin aldehyde	ND		6.82	4.00		ug/Kg	☼	59	45 - 130	21	21
Endrin ketone	0.12	J B	6.82	3.97		ug/Kg	☼	56	53 - 139	17	17
gamma-BHC (Lindane)	ND	F1 F2	6.82	3.83		ug/Kg	☼	56	47 - 127	13	17
gamma-Chlordane	0.064	J	6.82	3.85		ug/Kg	☼	56	52 - 137	10	17
Heptachlor	0.10	J B	6.82	3.94		ug/Kg	☼	56	43 - 141	11	18
Heptachlor epoxide	0.0078	J B F1	6.82	4.14		ug/Kg	☼	61	47 - 143	NC	17
Methoxychlor	0.11	J F1	6.82	3.79	F1	ug/Kg	☼	54	56 - 137	12	17

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 580-53747-7 MSD
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: MW-9-19-A
Prep Type: Total/NA
Prep Batch: 202997

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*43*	*X*	*60 - 128*
Tetrachloro-m-xylene	*61*		*35 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-202233/9-A
Matrix: Solid
Analysis Batch: 204009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.050	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1221	ND		1.1	0.34	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1232	ND		1.1	0.22	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1242	ND		1.0	0.21	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1248	ND		1.1	0.16	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1254	ND		1.0	0.090	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1260	ND		1.0	0.13	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1262	ND		1.0	0.19	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
PCB-1268	ND		1.0	0.21	ug/Kg		10/01/15 12:32	10/22/15 15:56	1
Polychlorinated biphenyls, Total	ND		1.1	0.34	ug/Kg		10/01/15 12:32	10/22/15 15:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*50 - 140*	*10/01/15 12:32*	*10/22/15 15:56*	*1*
Tetrachloro-m-xylene	*55*		*45 - 135*	*10/01/15 12:32*	*10/22/15 15:56*	*1*

Lab Sample ID: LCS 580-202233/12-A
Matrix: Solid
Analysis Batch: 204009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202233

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			25.0	15.5		ug/Kg		62	40 - 140		
PCB-1260			25.0	16.6		ug/Kg		66	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*50 - 140*
Tetrachloro-m-xylene	*57*		*45 - 135*

Lab Sample ID: LCSD 580-202233/13-A
Matrix: Solid
Analysis Batch: 204009

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202233

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			25.0	15.7		ug/Kg		63	40 - 140	1	20
PCB-1260			25.0	15.8		ug/Kg		63	60 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*50 - 140*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 580-202233/13-A
Matrix: Solid
Analysis Batch: 204009

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202233

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	58		45 - 135

Lab Sample ID: 580-53747-1 MS
Matrix: Solid
Analysis Batch: 204009

Client Sample ID: MW-9-2
Prep Type: Total/NA
Prep Batch: 202233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		30.2	26.6		ug/Kg	☼	88	40 - 140
PCB-1260	ND		30.2	20.2		ug/Kg	☼	67	60 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	77		50 - 140
Tetrachloro-m-xylene	59		45 - 135

Lab Sample ID: 580-53747-1 MSD
Matrix: Solid
Analysis Batch: 204009

Client Sample ID: MW-9-2
Prep Type: Total/NA
Prep Batch: 202233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		30.2	30.9		ug/Kg	☼	103	40 - 140	15	20
PCB-1260	ND		30.2	24.6		ug/Kg	☼	82	60 - 130	19	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	90		50 - 140
Tetrachloro-m-xylene	65		45 - 135

Lab Sample ID: MB 580-202997/1-A
Matrix: Solid
Analysis Batch: 203830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.050	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1221	ND		1.1	0.34	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1232	ND		1.1	0.22	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1242	ND		1.0	0.21	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1248	ND		1.1	0.16	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1254	ND		1.0	0.090	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1260	ND		1.0	0.13	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1262	ND		1.0	0.19	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1268	ND		1.0	0.21	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
Polychlorinated biphenyls, Total	ND		1.1	0.34	ug/Kg		10/10/15 13:26	10/20/15 20:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55		50 - 140	10/10/15 13:26	10/20/15 20:19	1
Tetrachloro-m-xylene	50		45 - 135	10/10/15 13:26	10/20/15 20:19	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 580-202997/4-A
Matrix: Solid
Analysis Batch: 203928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202997

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			100	65.5		ug/Kg		65	40 - 140		
PCB-1260			100	72.3		ug/Kg		72	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*50 - 140*
Tetrachloro-m-xylene	*65*		*45 - 135*

Lab Sample ID: LCSD 580-202997/5-A
Matrix: Solid
Analysis Batch: 203928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202997

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			100	66.3		ug/Kg		66	40 - 140	7	20
PCB-1260			100	71.3		ug/Kg		71	60 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*50 - 140*
Tetrachloro-m-xylene	*62*		*45 - 135*

Lab Sample ID: 580-53747-B-7-D MS
Matrix: Solid
Analysis Batch: 203830

Client Sample ID: 580-53747-B-7-D MS
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		135	88.2		ug/Kg	☼	65	40 - 140		
PCB-1260	ND	F1	135	86.7		ug/Kg	☼	64	60 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*70*		*50 - 140*
Tetrachloro-m-xylene	*72*		*45 - 135*

Lab Sample ID: 580-53747-B-7-E MSD
Matrix: Solid
Analysis Batch: 203830

Client Sample ID: 580-53747-B-7-E MSD
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		135	81.8		ug/Kg	☼	61	40 - 140	8	20
PCB-1260	ND	F1	135	79.5	F1	ug/Kg	☼	59	60 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*64*		*50 - 140*
Tetrachloro-m-xylene	*66*		*45 - 135*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-202248/1-A
Matrix: Solid
Analysis Batch: 202323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	3.6	mg/Kg		10/01/15 13:31	10/02/15 18:34	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		10/01/15 13:31	10/02/15 18:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*10/01/15 13:31*	*10/02/15 18:34*	*1*

Lab Sample ID: LCS 580-202248/2-A
Matrix: Solid
Analysis Batch: 202323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202248

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			500	467		mg/Kg		93	70 - 125		
Motor Oil (>C24-C36)			502	507		mg/Kg		101	64 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*90*		*50 - 150*

Lab Sample ID: LCSD 580-202248/3-A
Matrix: Solid
Analysis Batch: 202323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202248

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			500	451		mg/Kg		90	70 - 125	4	16
Motor Oil (>C24-C36)			502	495		mg/Kg		99	64 - 127	2	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*

Lab Sample ID: MB 580-203017/1-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	3.6	mg/Kg		10/11/15 08:58	10/12/15 17:26	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		10/11/15 08:58	10/12/15 17:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*10/11/15 08:58*	*10/12/15 17:26*	*1*

Lab Sample ID: LCS 580-203017/2-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203017

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			500	464		mg/Kg		93	70 - 125		
Motor Oil (>C24-C36)			502	483		mg/Kg		96	64 - 127		

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-203017/2-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203017

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	91		50 - 150

Lab Sample ID: LCSD 580-203017/3-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203017

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			500	477		mg/Kg		95	70 - 125	3	16
Motor Oil (>C24-C36)			502	500		mg/Kg		100	64 - 127	3	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	91		50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-203315/21-A
Matrix: Solid
Analysis Batch: 203448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		15	15	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Antimony	ND		0.10	0.021	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Arsenic	ND		0.25	0.090	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Barium	ND		0.25	0.039	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Cadmium	ND		0.10	0.0095	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Chromium	0.0378	J	0.25	0.032	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Copper	ND		0.20	0.049	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Lead	ND		0.25	0.024	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Magnesium	ND		50	1.3	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Nickel	ND		0.25	0.041	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Silver	ND		0.10	0.0060	mg/Kg		10/14/15 10:26	10/14/15 14:19	5
Zinc	ND		2.5	0.56	mg/Kg		10/14/15 10:26	10/14/15 14:19	5

Lab Sample ID: LCS 580-203315/22-A
Matrix: Solid
Analysis Batch: 203448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203315

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			500	521		mg/Kg		104	80 - 120
Antimony			150	151		mg/Kg		100	80 - 120
Arsenic			200	202		mg/Kg		101	80 - 120
Barium			200	204		mg/Kg		102	80 - 120
Cadmium			5.00	5.15		mg/Kg		103	80 - 120
Chromium			20.0	21.2		mg/Kg		106	80 - 120
Copper			25.0	25.5		mg/Kg		102	80 - 120
Lead			50.0	49.6		mg/Kg		99	80 - 120
Magnesium			1000	1120		mg/Kg		112	80 - 120
Nickel			50.0	50.3		mg/Kg		101	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-203315/22-A
Matrix: Solid
Analysis Batch: 203448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	30.0	29.9		mg/Kg		100	80 - 120
Zinc	200	202		mg/Kg		101	80 - 120

Lab Sample ID: LCSD 580-203315/23-A
Matrix: Solid
Analysis Batch: 203448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203315

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	500	526		mg/Kg		105	80 - 120	1	20
Antimony	150	153		mg/Kg		102	80 - 120	1	20
Arsenic	200	202		mg/Kg		101	80 - 120	0	20
Barium	200	206		mg/Kg		103	80 - 120	1	20
Cadmium	5.00	5.02		mg/Kg		100	80 - 120	3	20
Chromium	20.0	21.2		mg/Kg		106	80 - 120	0	20
Copper	25.0	25.4		mg/Kg		101	80 - 120	1	20
Lead	50.0	50.0		mg/Kg		100	80 - 120	1	20
Magnesium	1000	1130		mg/Kg		113	80 - 120	1	20
Nickel	50.0	51.0		mg/Kg		102	80 - 120	1	20
Silver	30.0	30.1		mg/Kg		100	80 - 120	1	20
Zinc	200	202		mg/Kg		101	80 - 120	0	20

Lab Sample ID: LCSSRM 580-203315/24-A
Matrix: Solid
Analysis Batch: 203448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203315

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	7460	7190		mg/Kg		96.4	37.3 - 162.2
Antimony	88.8	169		mg/Kg		190.3	22.0 - 259.0
Arsenic	139	147		mg/Kg		105.8	70.4 - 140.3
Barium	203	203		mg/Kg		100.0	73.4 - 127.1
Cadmium	96.0	95.2		mg/Kg		99.2	73.2 - 127.1
Chromium	136	142		mg/Kg		104.3	69.9 - 129.4
Copper	168	170		mg/Kg		101.1	75.6 - 125.0
Lead	133	134		mg/Kg		100.4	72.9 - 127.8
Magnesium	2800	3090		mg/Kg		110.3	65.0 - 135.0
Nickel	123	127		mg/Kg		103.4	73.1 - 128.5
Silver	40.2	39.8		mg/Kg		99.0	66.2 - 134.1
Zinc	189	195		mg/Kg		103.4	69.8 - 130.7

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-203146/21-A
Matrix: Solid
Analysis Batch: 203205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0060	mg/Kg		10/13/15 07:02	10/13/15 10:57	1

Lab Sample ID: LCS 580-203146/22-A
Matrix: Solid
Analysis Batch: 203205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.152		mg/Kg		91	80 - 120

Lab Sample ID: LCSD 580-203146/23-A
Matrix: Solid
Analysis Batch: 203205

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203146

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.159		mg/Kg		95	80 - 120	5	20

Lab Sample ID: 580-53747-1 MS
Matrix: Solid
Analysis Batch: 203205

Client Sample ID: MW-9-2
Prep Type: Total/NA
Prep Batch: 203146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.057		0.187	0.254		mg/Kg	☼	105	80 - 120

Lab Sample ID: 580-53747-1 MSD
Matrix: Solid
Analysis Batch: 203205

Client Sample ID: MW-9-2
Prep Type: Total/NA
Prep Batch: 203146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.057		0.188	0.255		mg/Kg	☼	106	80 - 120	1	20

Lab Sample ID: 580-53747-1 DU
Matrix: Solid
Analysis Batch: 203205

Client Sample ID: MW-9-2
Prep Type: Total/NA
Prep Batch: 203146

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.057		0.0356	F5	mg/Kg	☼	46	20

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-202930/3
Matrix: Solid
Analysis Batch: 202930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			10/09/15 13:57	1
TOC Result 1	ND		2000	44	mg/Kg			10/09/15 13:57	1

Method: 9060_PSEP - TOC (Puget Sound) (Continued)

Lab Sample ID: LCS 580-202930/4
Matrix: Solid
Analysis Batch: 202930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates			4620	4590		mg/Kg		99	49 - 151		

Lab Sample ID: LCSD 580-202930/5
Matrix: Solid
Analysis Batch: 202930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates			4620	4740		mg/Kg		103	49 - 151	3	35

Lab Sample ID: MB 580-203147/3
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			10/12/15 14:37	1
TOC Result 1	ND		2000	44	mg/Kg			10/12/15 14:37	1

Lab Sample ID: LCS 580-203147/4
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates			4620	4640		mg/Kg		100	49 - 151		

Lab Sample ID: LCSD 580-203147/5
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates			4620	4620		mg/Kg		100	49 - 151	0	35

Method: D 2216 - Percent Moisture

Lab Sample ID: 580-53747-A-2 DU
Matrix: Solid
Analysis Batch: 202340

Client Sample ID: 580-53747-A-2 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	93			94		%				0.4	20
Percent Moisture	6.5			6.2		%				6	20

Client Sample ID: MW-9-2
Date Collected: 09/29/15 09:12
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	202930	10/09/15 14:51	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	202309	10/02/15 07:06	S1X	TAL SEA

Client Sample ID: MW-9-2
Date Collected: 09/29/15 09:12
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-1
Matrix: Solid
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202332	10/02/15 10:04	DGY	TAL SEA
Total/NA	Analysis	8260C		1	202343	10/02/15 14:33	CJ	TAL SEA
Total/NA	Prep	3550B			202235	10/01/15 12:45	CTT	TAL SEA
Total/NA	Analysis	8270D		5	203464	10/15/15 20:40	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:42	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/06/15 17:07	TL1	TAL SEA
Total/NA	Prep	3550B			202233	10/01/15 12:32	S1X	TAL SEA
Total/NA	Analysis	8081B		5	205885	11/18/15 09:07	DMW	TAL SEA
Total/NA	Prep	3550B			202233	10/01/15 12:32	S1X	TAL SEA
Total/NA	Analysis	8082A		5	204009	10/22/15 16:13	DFE	TAL SEA
Total/NA	Prep	3546			202248	10/01/15 13:31	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202323	10/02/15 20:20	NMI	TAL SEA
Total/NA	Prep	3050B			203315	10/14/15 10:26	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203448	10/14/15 16:13	FCW	TAL SEA
Total/NA	Prep	7471A			203146	10/13/15 07:02	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203205	10/13/15 11:04	FCW	TAL SEA

Client Sample ID: MW-3-4.5
Date Collected: 09/29/15 13:53
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	202930	10/09/15 15:00	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	202340	10/02/15 10:39	CTT	TAL SEA

Client Sample ID: MW-3-4.5
Date Collected: 09/29/15 13:53
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-3
Matrix: Solid
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202332	10/02/15 10:04	DGY	TAL SEA
Total/NA	Analysis	8260C		1	202343	10/02/15 15:27	CJ	TAL SEA

Client Sample ID: MW-3-4.5

Date Collected: 09/29/15 13:53
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-3

Matrix: Solid
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			202235	10/01/15 12:45	CTT	TAL SEA
Total/NA	Analysis	8270D		1	203464	10/15/15 21:31	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:42	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/06/15 18:09	TL1	TAL SEA
Total/NA	Prep	3550B			202233	10/01/15 12:32	S1X	TAL SEA
Total/NA	Analysis	8081B		10	205885	11/18/15 09:42	DMW	TAL SEA
Total/NA	Prep	3550B			202233	10/01/15 12:32	S1X	TAL SEA
Total/NA	Analysis	8082A		10	204009	10/22/15 17:19	DFE	TAL SEA
Total/NA	Prep	3546			202248	10/01/15 13:31	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202323	10/02/15 20:56	NMI	TAL SEA
Total/NA	Prep	3050B			203315	10/14/15 10:26	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203448	10/14/15 16:17	FCW	TAL SEA
Total/NA	Prep	7471A			203146	10/13/15 07:02	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203205	10/13/15 11:13	FCW	TAL SEA

Client Sample ID: MW-3-1.5

Date Collected: 09/29/15 13:58
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	202930	10/09/15 15:11	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	202309	10/02/15 07:06	S1X	TAL SEA

Client Sample ID: MW-3-1.5

Date Collected: 09/29/15 13:58
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-4

Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202332	10/02/15 10:04	DGY	TAL SEA
Total/NA	Analysis	8260C		1	202343	10/02/15 16:48	CJ	TAL SEA
Total/NA	Prep	3550B			202235	10/01/15 12:45	CTT	TAL SEA
Total/NA	Analysis	8270D		5	203464	10/15/15 21:56	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:42	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/06/15 18:41	TL1	TAL SEA
Total/NA	Prep	3550B			202233	10/01/15 12:32	S1X	TAL SEA
Total/NA	Analysis	8081B		5	205885	11/18/15 09:59	DMW	TAL SEA
Total/NA	Prep	3550B			202233	10/01/15 12:32	S1X	TAL SEA
Total/NA	Analysis	8082A		5	204009	10/22/15 17:36	DFE	TAL SEA
Total/NA	Prep	3546			202248	10/01/15 13:31	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202887	10/09/15 13:38	NMI	TAL SEA
Total/NA	Prep	3050B			203315	10/14/15 10:26	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203448	10/14/15 16:21	FCW	TAL SEA

Client Sample ID: MW-3-1.5

Lab Sample ID: 580-53747-4

Date Collected: 09/29/15 13:58

Matrix: Solid

Date Received: 09/29/15 15:50

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			203146	10/13/15 07:02	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203205	10/13/15 11:16	FCW	TAL SEA

Client Sample ID: MW-9-19-A

Lab Sample ID: 580-53747-7

Date Collected: 09/29/15 10:17

Matrix: Solid

Date Received: 09/29/15 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203147	10/12/15 15:05	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	203043	10/12/15 08:42	DCV	TAL SEA

Client Sample ID: MW-9-19-A

Lab Sample ID: 580-53747-7

Date Collected: 09/29/15 10:17

Matrix: Solid

Date Received: 09/29/15 15:50

Percent Solids: 73.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	203054	10/12/15 16:40	K1K	TAL SEA
Total/NA	Prep	5035	RA		203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C	RA	1	204000	10/22/15 14:59	JMB	TAL SEA
Total/NA	Prep	3550B			202998	10/10/15 14:08	KZ1	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 07:05	AHP	TAL SEA
Total/NA	Prep	3550B	RA		202998	10/10/15 14:08	KZ1	TAL SEA
Total/NA	Analysis	8270D	RA	1	204188	10/25/15 16:51	AHP	TAL SEA
Total/NA	Prep	5035			203228	10/13/15 15:51	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	203258	10/14/15 00:17	D1R	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:26	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	204005	10/22/15 20:30	DFE	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:26	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	205885	11/18/15 09:24	DMW	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:26	KZ1	TAL SEA
Total/NA	Analysis	8082A		1	203830	10/20/15 20:36	DFE	TAL SEA
Total/NA	Prep	3546			203017	10/11/15 08:58	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203114	10/12/15 18:55	NMI	TAL SEA
Total/NA	Prep	3050B			203315	10/14/15 10:26	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203448	10/14/15 16:25	FCW	TAL SEA
Total/NA	Prep	7471A			203146	10/13/15 07:02	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203205	10/13/15 11:18	FCW	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53747-1

Client Sample ID: MW-3-21-A
Date Collected: 09/29/15 14:42
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203147	10/12/15 15:10	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	202941	10/09/15 17:13	DGY	TAL SEA

Client Sample ID: MW-3-21-A
Date Collected: 09/29/15 14:42
Date Received: 09/29/15 15:50

Lab Sample ID: 580-53747-14
Matrix: Solid
Percent Solids: 72.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	203054	10/12/15 17:13	K1K	TAL SEA
Total/NA	Prep	5035	RA		203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C	RA	1	204000	10/22/15 15:32	JMB	TAL SEA
Total/NA	Prep	3550B			202998	10/10/15 14:08	KZ1	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 07:30	AHP	TAL SEA
Total/NA	Prep	3550B	RA		202998	10/10/15 14:08	KZ1	TAL SEA
Total/NA	Analysis	8270D	RA	1	204188	10/25/15 17:17	AHP	TAL SEA
Total/NA	Prep	5035			203228	10/13/15 15:51	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	203258	10/14/15 00:50	D1R	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:26	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	204005	10/22/15 21:22	DFE	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:26	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	206045	11/19/15 04:03	DMW	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:26	KZ1	TAL SEA
Total/NA	Analysis	8082A		1	203830	10/20/15 21:59	DFE	TAL SEA
Total/NA	Prep	3546			203017	10/11/15 08:58	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203114	10/12/15 19:12	NMI	TAL SEA
Total/NA	Prep	3050B			203315	10/14/15 10:26	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203448	10/14/15 16:29	FCW	TAL SEA
Total/NA	Prep	7471A			203146	10/13/15 07:02	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203205	10/13/15 11:26	FCW	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53747-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	02-28-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: GeoPro Geologic Services
Project/Site: Oseran Properties

TestAmerica Job ID: 580-53747-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-53747-1	MW-9-2	Solid	09/29/15 09:12	09/29/15 15:50
580-53747-3	MW-3-4.5	Solid	09/29/15 13:53	09/29/15 15:50
580-53747-4	MW-3-1.5	Solid	09/29/15 13:58	09/29/15 15:50
580-53747-7	MW-9-19-A	Solid	09/29/15 10:17	09/29/15 15:50
580-53747-14	MW-3-21-A	Solid	09/29/15 14:42	09/29/15 15:50

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5755 8th Street E
Tacoma, W
Tel. 253-922
Fax 253-922
www.testar

580-53747 Chain of Custody

☐ Rush
☐ Short Hold

Soil

Chain of Custody Record

Client	Client Co	Date	Chain of Custody Number
GeoPro LLC	Rid	9-29-15	23682
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
POBox 26	360-907-5648		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Battleground / WA / 98604	Geo Pro	Robert Greer	
Project Name and Location (State)	**Billing Contact**		
Oseran Properties			
Contract/Purchase Order/Quote No.			
ECSI #1007			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: 6020A-LL	NWTPH-Dx	8081B	9045C	9060-PS2P	8082A	7471A	8270D (Mod)	8260 (VOC)	NWTPH-Gx-MS	8260C (Mod)	Special Instructions/ Conditions of Receipt
MW-9-2	9-29-15	0912				X							X	X	X	X	X	X	X	X	X	X	X	3 Containers *
MW-9-33	9-29-15	1029				X							X	X	X	X	X	X	X	X	X	X	X	3 Containers *
MW-3-4.5	9-29-15	1353				X							X	X	X	X	X	X	X	X	X	X	X	3 Containers *
MW-3-1.5	9-29-15	1358				X							X	X	X	X	X	X	X	X	X	X	X	3 " " *
																								* Not enough sample to fill (2) 8oz Containers.

Cooler: ☒ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Normal

QC Requirements (Specify):

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.		9-29-15	1520	Jessica Morgan	9/29/15	1520
2.	Jessica Morgan	9/29/15	1550	Ph.1 Svabl-Seor	9/29/15	1550
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

9.8 IR/p-C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Archive

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
Geo Pro LLC	Richard Kent	9-29-15	23684
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
PO Box 26	360-907-5648		
City / State / Zip Code	**Sampler**	**Lab Contact**	
Battleground / WA / 98604	Geo Pro	Robert Greer	
Project Name and Location (State)	**Billing Contact**		
Oseran Properties			
Contract/Purchase Order/Quote No.			
ECSI #1007			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Special Instructions/ Conditions of Receipt
~~MW-9-8-A~~ MW-9-8-A	9-29-15	0930				X							2 Containers
MW-9-12-A	9-29-15	0943				X							2 Containers
MW-9-19-A	9-29-15	1017				X							2 Containers
MW-9-21-A	9-29-15	1017				X							2 Containers
MW-9-40-A	9-29-15	1045				X							1 Container
MW-9-27.8-A	9-29-15	1036				X							1 Container
MW-3-7-A	9-29-15	1412				X							~~1~~ 1 " "
~~MW-13-~~													
MW-3-13-A	9-29-15	1423				X							1 " "
MW-3-19-A	9-29-15	1430				X							2 " "
MW-3-21-A	9-29-15	1442				X							

Analysis (Attach list if more space is needed)

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☒ Yes ☐ No Cooler Temp: ____	☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☒ Disposal By Lab ☒ Archive For 1 Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Normal

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.		9-29-15	1520	Jessica Morgan	9/29/15	1520
2.	Jessica Morgan	9/29/15	1550	Phil Svadlenka	9/29/15	1550
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: GeoPro Geologic Services

Job Number: 580-53747-1

Login Number: 53747
List Number: 1
Creator: Svabik-Seror, Philip M

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-53837-1
Client Project/Site: JSCS - NW Portland, Oregon

For:
GeoPro Geologic Services
PO BOX 26
Battle Ground, Washington 98604

Attn: Richard Kent

Authorized for release by:
12/3/2015 10:44:33 AM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 580-53837-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-53837-1

Comments
No additional comments.

Receipt
The samples were received on 10/1/2015 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.8º C and 5.8º C.

Receipt Exceptions

The following samples was activated (MW2-8-A) /canceled (MW-2-24.5) by the client on 10-08-2015: MW-2-24.5 (580-53837-5) and MW-2-8-A (580-53837-12).

Sample 580-53837-1 was changed to client sample ID: BG-2-24 per client request.

GC/MS VOA
Method(s) 8260C: The method blank for preparation batch 580-202892 and analytical batch 580-202865 contained Chloromethane and Trichlorofluoromethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The method blank for preparation batch 580-202892 contained Vinyl chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-202865 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-202865 was outside criteria for the following analyte(s): 2-Butanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-202865 recovered outside acceptance criteria, low biased, for Acrolein and Vinyl acetate. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-203054 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The method blank for batch 580-203451 contained multi analytes above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The method blank for preparation batch 580-203073 and analytical batch 580-204000 contained Methylene chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The following sample was prepared outside of the 48 hour preparation holding time for bulk soil samples due to laboratory error: MW-2-8-A (580-53837-12). Sample has been qualified and reported.

Method(s) NWTPH-Gx: The following sample was prepared outside of preparation holding time due to laboratory error: MW-2-8-A (580-53837-12). Sample has been qualified and reported.

Job ID: 580-53837-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The method blank for preparation batch 580-202635 and analytical batch 580-203867 contained Diethyl phthalate, Butyl benzyl phthalate and Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: The method blank for preparation batch 580-202944 and analytical batch 580-203587 contained Di-n-butyl phthalate, Diethyl phthalate, Bis(2-ethylhexyl) phthalate and Butyl benzyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: The method blank for preparation batch 580-202634 contained beta-BHC, delta-BHC and trans-Nonachlor above the reporting limit (RL). There was insufficient sample to perform a re-extraction and/or re-analysis; therefore, the data have been reported. There were also multiple analytes above the MDL but below the RL. Sample has been qualified and reported.

Method(s) 8081B: Surrogate recovery for the following sample was outside of acceptance limits: (MB 580-202634/1-A). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

Method(s) 8081B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 580-202634 and analytical batch 580-205593 recovered outside control limits for several analytes. These analytes were biased high in the LCS and LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8081B: The method blank for 202920 contained gamma-BHC (Lindane), 4,4'-DDD, Endrin aldehyde and Endrin ketone above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8081B: Surrogate TCMX and DCB recovery for the following samples was outside the upper control limit with evidence of matrix interference: BG-2-24 (580-53837-1), MW-6-3.5 (580-53837-2), MW-6-24.2 (580-53837-3), MW-2-2 (580-53837-4), MW-4-4 (580-53837-6), (580-53837-B-1-F MS) and (580-53837-B-1-G MSD).

Method(s) 8081B: The following sample(s) was analyzed outside of analytical holding time due to laboratory error: BG-2-24 (580-53837-1), MW-6-3.5 (580-53837-2), MW-6-24.2 (580-53837-3), MW-2-2 (580-53837-4), and MW-4-4 (580-53837-6). Samples have been qualified and reported.

Method(s) 8082A: The surrogate Tetrachloro-m-xylene recovery in preperation batch 580-202920 and analytical batch 580-203668 for the following samples was outside control limits (low): (LCS 580-202634/2-A) and (MB 580-202634/1-A). The LCSD surrogates were well within control. The LCS and LCSD spike recoveries were within acceptance limits as well.
There is chromatographic evidence of carryover of matrix interference as large non-target peaks and the surrogate DCB was in control indicating a successful extraction; therefore, matrix interference is suspected and re-extraction and/or re-analysis was not performed.

Method(s) NWTPH-Dx: The method blank for preparation batch 580-202582 and analytical batch 580-202652 contained #2 Diesel (C10-C24) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: BG-2-24
Date Collected: 09/30/15 13:47
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-1
Matrix: Solid
Percent Solids: 72.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		53	5.1	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
1,1,1-Trichloroethane	ND		53	7.5	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
1,1,2,2-Tetrachloroethane	ND		13	3.1	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
1,1,2-Trichloroethane	ND		16	3.7	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
1,1-Dichloroethane	ND		53	5.6	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
1,2,3-Trichloropropane	ND		53	15	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
1,2-Dibromoethane	ND		21	4.5	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
1,2-Dichloroethane	ND		21	4.4	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
1,2-Dichloropropane	ND		16	3.2	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
2-Butanone	ND		530	70	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
2-Chloroethyl vinyl ether	ND		270	8.3	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
2-Hexanone	ND		270	48	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
4-Methyl-2-pentanone	ND		270	39	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Acetone	ND		1100	230	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Acrolein	ND		1600	120	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Acrylonitrile	ND		530	130	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Benzene	ND		21	4.7	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Bromochloromethane	ND		53	6.1	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Bromodichloromethane	ND		53	1.9	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Bromoform	ND		53	8.7	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Bromomethane	ND		190	18	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Carbon disulfide	ND		53	5.9	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Carbon tetrachloride	ND		27	5.1	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Chlorobenzene	ND		53	13	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Chlorodibromomethane	ND		27	3.7	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Chloroethane	ND		530	21	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Chloroform	ND		53	5.6	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Chloromethane	ND		130	13	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
cis-1,2-Dichloroethene	ND		53	6.5	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
cis-1,3-Dichloropropene	ND		21	2.4	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Dibromomethane	ND		80	17	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Dichlorodifluoromethane	ND		53	8.7	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Ethylbenzene	ND		53	2.7	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Iodomethane	ND		270	8.4	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Isopropylbenzene	ND		53	3.5	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Methyl tert-butyl ether	ND		53	8.0	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Methylene Chloride	ND		33	15	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
m-Xylene & p-Xylene	ND		53	4.0	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
o-Xylene	ND		53	4.0	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Styrene	ND		53	3.2	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
t-Butylbenzene	ND		53	4.1	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Tetrachloroethene	ND		27	7.1	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Toluene	ND		53	3.5	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
trans-1,2-Dichloroethene	ND		53	5.1	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
trans-1,3-Dichloropropene	ND		53	9.3	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
trans-1,4-Dichloro-2-butene	ND		270	21	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Trichloroethene	ND		32	4.1	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Trichlorofluoromethane	ND		53	7.9	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1
Vinyl acetate	ND		270	62	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1

Client Sample ID: BG-2-24
Date Collected: 09/30/15 13:47
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-1
Matrix: Solid
Percent Solids: 72.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	F1	21	9.5	ug/Kg	☼	10/09/15 11:23	10/09/15 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 136*	*10/09/15 11:23*	*10/09/15 13:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 120*	*10/09/15 11:23*	*10/09/15 13:48*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 132*	*10/09/15 11:23*	*10/09/15 13:48*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/09/15 11:23*	*10/09/15 13:48*	*1*
Trifluorotoluene (Surr)	*101*		*65 - 140*	*10/09/15 11:23*	*10/09/15 13:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
2-Methylnaphthalene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Dimethyl phthalate	ND		14	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Acenaphthylene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Acenaphthene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Diethyl phthalate	**21**	**J B**	27	2.1	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Fluorene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Phenanthrene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Anthracene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Di-n-butyl phthalate	ND		69	6.9	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Fluoranthene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Pyrene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Butyl benzyl phthalate	**17**	**J B**	27	6.9	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Benzo[a]anthracene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Chrysene	ND		3.4	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Bis(2-ethylhexyl) phthalate	**47**	**J B**	82	6.9	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Di-n-octyl phthalate	**26**	**J**	69	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Benzo[b]fluoranthene	ND		2.7	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Benzo[k]fluoranthene	ND		3.4	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Benzo[a]pyrene	ND		4.1	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Indeno[1,2,3-cd]pyrene	ND		5.5	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Dibenz(a,h)anthracene	ND		5.5	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1
Benzo[g,h,i]perylene	ND		3.4	0.69	ug/Kg	☼	10/07/15 10:28	10/21/15 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*75*		*42 - 151*	*10/07/15 10:28*	*10/21/15 01:34*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.3	0.67	mg/Kg	☼	10/08/15 14:10	10/08/15 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*	*10/08/15 14:10*	*10/08/15 20:07*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.27	0.041	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
2,4'-DDE	ND	H	0.27	0.041	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
2,4'-DDT	ND	H	0.27	0.022	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
4,4'-DDD	ND	H F1	0.27	0.010	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1

Client Sample ID: BG-2-24
Date Collected: 09/30/15 13:47
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-1
Matrix: Solid
Percent Solids: 72.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H F1	0.27	0.019	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
4,4'-DDT	ND	H F1 *	0.27	0.021	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Aldrin	ND	H	0.14	0.016	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
alpha-BHC	ND	H	0.14	0.038	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
alpha-Chlordane	ND	H F1	0.14	0.018	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
beta-BHC	ND	H * F1	0.14	0.015	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Chlordane (technical)	ND	H *	1.4	0.19	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
cis-Nonachlor	ND	H	0.27	0.026	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
delta-BHC	**0.19**	**H B * F1**	0.14	0.020	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Dieldrin	ND	H F1	0.27	0.016	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Endosulfan I	ND	H F1	0.14	0.014	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Endosulfan II	**0.069**	**J H B F1**	0.27	0.015	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Endosulfan sulfate	**0.33**	**H B * F1 F2**	0.27	0.0062	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Endrin	ND	H F1 *	0.27	0.013	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Endrin aldehyde	**1.5**	**H B**	0.27	0.027	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Endrin ketone	ND	H F1 *	0.27	0.016	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
gamma-BHC (Lindane)	**0.045**	**J H B F1 ***	0.14	0.0096	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
gamma-Chlordane	ND	H F1	0.14	0.018	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Heptachlor	ND	H	0.27	0.020	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Heptachlor epoxide	**0.020**	**J H B * F1**	0.14	0.0053	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Methoxychlor	ND	H * F1 F2	1.4	0.017	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
oxy-Chlordane	ND	H	0.27	0.041	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
Toxaphene	ND	H	14	1.1	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1
trans-Nonachlor	ND	H	0.27	0.041	ug/Kg	☼	10/07/15 10:18	12/01/15 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*150*	*X*	*60 - 128*	*10/07/15 10:18*	*12/01/15 22:26*	*1*
Tetrachloro-m-xylene	*123*		*35 - 129*	*10/07/15 10:18*	*12/01/15 22:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2 *	1.4	0.068	ug/Kg	☼	10/07/15 10:18	11/14/15 00:50	1
PCB-1221	ND	*	1.5	0.46	ug/Kg	☼	10/07/15 10:18	11/14/15 00:50	1
PCB-1232	ND	*	1.5	0.30	ug/Kg	☼	10/07/15 10:18	11/14/15 00:50	1
PCB-1242	ND	*	1.4	0.29	ug/Kg	☼	10/07/15 10:18	11/14/15 00:50	1
PCB-1248	ND	*	1.5	0.22	ug/Kg	☼	10/07/15 10:18	11/14/15 00:50	1
PCB-1254	ND	*	1.4	0.12	ug/Kg	☼	10/07/15 10:18	11/14/15 00:50	1
PCB-1260	ND	F1 *	1.4	0.18	ug/Kg	☼	10/07/15 10:18	11/14/15 00:50	1
PCB-1262	ND	*	1.4	0.26	ug/Kg	☼	10/07/15 10:18	11/14/15 00:50	1
PCB-1268	ND	*	1.4	0.29	ug/Kg	☼	10/07/15 10:18	11/14/15 00:50	1
Polychlorinated biphenyls, Total	ND		1.5	0.46	ug/Kg	☼	10/07/15 10:18	11/14/15 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*	*	*50 - 140*	*10/07/15 10:18*	*11/14/15 00:50*	*1*
Tetrachloro-m-xylene	*46*	*	*45 - 135*	*10/07/15 10:18*	*11/14/15 00:50*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**7.8**	**J B**	31	4.5	mg/Kg	☼	10/06/15 14:54	10/07/15 17:59	1
Motor Oil (>C24-C36)	ND		63	11	mg/Kg	☼	10/06/15 14:54	10/07/15 17:59	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: BG-2-24
Date Collected: 09/30/15 13:47
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-1
Matrix: Solid
Percent Solids: 72.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		50 - 150	10/06/15 14:54	10/07/15 17:59	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	29000		35	35	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Antimony	0.78		0.24	0.050	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Arsenic	13		0.59	0.21	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Barium	290	F1	0.59	0.092	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Cadmium	0.57		0.24	0.022	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Chromium	31	F1	0.59	0.074	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Copper	51	F1	0.47	0.12	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Lead	20		0.59	0.057	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Magnesium	13000		120	3.1	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Nickel	41	F1	0.59	0.096	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Silver	0.091	J	0.24	0.014	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10
Zinc	150	F1	5.9	1.3	mg/Kg	☼	10/15/15 08:55	10/15/15 21:34	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.025	0.0074	mg/Kg	☼	10/15/15 10:44	10/15/15 14:04	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	200	J	2000	44	mg/Kg			10/14/15 20:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	72		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	28		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: MW-6-3.5
Date Collected: 09/30/15 14:46
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-2
Matrix: Solid
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		75	7.1	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
1,1,1-Trichloroethane	ND		75	10	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
1,1,2,2-Tetrachloroethane	ND		19	4.3	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
1,1,2-Trichloroethane	ND		22	5.2	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
1,1-Dichloroethane	ND		75	7.8	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
1,2,3-Trichloropropane	ND		75	21	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
1,2-Dibromoethane	ND		30	6.3	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
1,2-Dichloroethane	ND		30	6.2	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
1,2-Dichloropropane	ND		22	4.5	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
2-Butanone	ND		750	97	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
2-Chloroethyl vinyl ether	ND		370	12	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
2-Hexanone	ND		370	66	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
4-Methyl-2-pentanone	ND		370	55	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Acetone	ND		1500	320	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Acrolein	ND		2200	170	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Acrylonitrile	ND		750	180	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Benzene	ND		30	6.5	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Bromochloromethane	ND		75	8.6	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Bromodichloromethane	ND		75	2.6	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Bromoform	ND		75	12	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Bromomethane	ND		260	25	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Carbon disulfide	ND		75	8.2	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Carbon tetrachloride	ND		37	7.1	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Chlorobenzene	ND		75	18	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Chlorodibromomethane	ND		37	5.2	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Chloroethane	ND		750	30	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Chloroform	ND		75	7.8	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Chloromethane	ND		190	19	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
cis-1,2-Dichloroethene	ND		75	9.2	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
cis-1,3-Dichloropropene	ND		30	3.4	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Dibromomethane	ND		110	24	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Dichlorodifluoromethane	ND		75	12	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Ethylbenzene	ND		75	3.7	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Iodomethane	ND		370	12	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Isopropylbenzene	ND		75	4.9	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Methyl tert-butyl ether	ND		75	11	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Methylene Chloride	ND		47	21	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
m-Xylene & p-Xylene	ND		75	5.6	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
o-Xylene	ND		75	5.6	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Styrene	ND		75	4.5	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
t-Butylbenzene	ND		75	5.8	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Tetrachloroethene	ND		37	9.9	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Toluene	**7.3**	**J**	75	4.9	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
trans-1,2-Dichloroethene	ND		75	7.1	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
trans-1,3-Dichloropropene	ND		75	13	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
trans-1,4-Dichloro-2-butene	ND		370	30	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Trichloroethene	ND		45	5.8	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Trichlorofluoromethane	ND		75	11	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1
Vinyl acetate	ND		370	86	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1

Client Sample ID: MW-6-3.5
Date Collected: 09/30/15 14:46
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-2
Matrix: Solid
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		30	13	ug/Kg	☼	10/09/15 11:23	10/09/15 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 136*	*10/09/15 11:23*	*10/09/15 15:09*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*	*10/09/15 11:23*	*10/09/15 15:09*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 132*	*10/09/15 11:23*	*10/09/15 15:09*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/09/15 11:23*	*10/09/15 15:09*	*1*
Trifluorotoluene (Surr)	*99*		*65 - 140*	*10/09/15 11:23*	*10/09/15 15:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**4.8**		2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
2-Methylnaphthalene	**2.3**	**J**	2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Dimethyl phthalate	ND		12	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Acenaphthylene	**2.6**		2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Acenaphthene	**0.80**	**J**	2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Diethyl phthalate	**20**	**J B**	25	1.8	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Fluorene	**2.1**	**J**	2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Phenanthrene	**36**		2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Anthracene	**4.5**		2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Di-n-butyl phthalate	**14**	**J**	61	6.1	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Fluoranthene	**62**		2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Pyrene	**57**		2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Butyl benzyl phthalate	**28**	**B**	25	6.1	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Benzo[a]anthracene	**22**		2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Chrysene	**29**		3.1	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Bis(2-ethylhexyl) phthalate	**47**	**J B**	74	6.1	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Di-n-octyl phthalate	**8.0**	**J**	61	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Benzo[b]fluoranthene	**43**		2.5	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Benzo[k]fluoranthene	**12**		3.1	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Benzo[a]pyrene	**22**		3.7	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Indeno[1,2,3-cd]pyrene	**11**		4.9	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Dibenz(a,h)anthracene	**1.6**	**J**	4.9	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1
Benzo[g,h,i]perylene	**12**		3.1	0.61	ug/Kg	☼	10/07/15 10:28	10/21/15 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*92*		*42 - 151*	*10/07/15 10:28*	*10/21/15 02:00*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		7.5	0.93	mg/Kg	☼	10/08/15 14:10	10/08/15 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*	*10/08/15 14:10*	*10/08/15 20:40*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	1.2	0.18	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
2,4'-DDE	ND	H	1.2	0.18	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
2,4'-DDT	ND	H	1.2	0.099	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
4,4'-DDD	ND	H	1.2	0.045	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5

Client Sample ID: MW-6-3.5
Date Collected: 09/30/15 14:46
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-2
Matrix: Solid
Percent Solids: 79.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	1.2	0.086	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
4,4'-DDT	ND	H *	1.2	0.093	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Aldrin	ND	H	0.61	0.072	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
alpha-BHC	ND	H	0.61	0.17	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
alpha-Chlordane	ND	H	0.61	0.082	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
beta-BHC	ND	H *	0.61	0.070	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Chlordane (technical)	**NC**	**H B ***	6.1	0.86	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
cis-Nonachlor	ND	H	1.2	0.12	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
delta-BHC	**0.49**	**J H B ***	0.61	0.091	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Dieldrin	ND	H	1.2	0.072	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Endosulfan I	ND	H	0.61	0.062	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Endosulfan II	**0.11**	**J H B**	1.2	0.066	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Endosulfan sulfate	ND	H *	1.2	0.028	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Endrin	ND	H *	1.2	0.058	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Endrin aldehyde	ND	H	1.2	0.12	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Endrin ketone	ND	H *	1.2	0.074	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
gamma-BHC (Lindane)	ND	H *	0.61	0.043	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
gamma-Chlordane	ND	H	0.61	0.082	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Heptachlor	ND	H	1.2	0.092	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Heptachlor epoxide	ND	H *	0.61	0.024	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Methoxychlor	ND	H *	6.1	0.078	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
oxy-Chlordane	ND	H	1.2	0.18	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
Toxaphene	ND	H	61	4.8	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5
trans-Nonachlor	ND	H	1.2	0.18	ug/Kg	☼	10/07/15 10:18	12/01/15 22:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*217*	*X*	*60 - 128*	*10/07/15 10:18*	*12/01/15 22:43*	*5*
Tetrachloro-m-xylene	*190*	*X*	*35 - 129*	*10/07/15 10:18*	*12/01/15 22:43*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.2	0.061	ug/Kg	☼	10/07/15 10:18	11/14/15 01:40	1
PCB-1221	ND		1.3	0.42	ug/Kg	☼	10/07/15 10:18	11/14/15 01:40	1
PCB-1232	ND		1.3	0.27	ug/Kg	☼	10/07/15 10:18	11/14/15 01:40	1
PCB-1242	ND		1.2	0.26	ug/Kg	☼	10/07/15 10:18	11/14/15 01:40	1
PCB-1248	ND		1.3	0.20	ug/Kg	☼	10/07/15 10:18	11/14/15 01:40	1
PCB-1254	ND		1.2	0.11	ug/Kg	☼	10/07/15 10:18	11/14/15 01:40	1
PCB-1260	ND		1.2	0.16	ug/Kg	☼	10/07/15 10:18	11/14/15 01:40	1
PCB-1262	**11**		1.2	0.23	ug/Kg	☼	10/07/15 10:18	11/14/15 01:40	1
PCB-1268	ND		1.2	0.26	ug/Kg	☼	10/07/15 10:18	11/14/15 01:40	1
Polychlorinated biphenyls, Total	**11**		1.3	0.42	ug/Kg	☼	10/07/15 10:18	11/14/15 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*50 - 140*	*10/07/15 10:18*	*11/14/15 01:40*	*1*
Tetrachloro-m-xylene	*64*		*45 - 135*	*10/07/15 10:18*	*11/14/15 01:40*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**9.0**	**J B**	31	4.5	mg/Kg	☼	10/06/15 14:54	10/07/15 18:37	1
Motor Oil (>C24-C36)	**20**	**J**	62	11	mg/Kg	☼	10/06/15 14:54	10/07/15 18:37	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: MW-6-3.5
Date Collected: 09/30/15 14:46
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-2
Matrix: Solid
Percent Solids: 79.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		50 - 150	10/06/15 14:54	10/07/15 18:37	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	21000		16	16	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Antimony	0.68		0.11	0.023	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Arsenic	12		0.27	0.099	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Barium	270		0.27	0.043	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Cadmium	0.25		0.11	0.010	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Chromium	21		0.27	0.035	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Copper	29		0.22	0.054	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Lead	16		0.27	0.026	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Magnesium	6300		55	1.5	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Nickel	21		0.27	0.045	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Silver	0.032	J	0.11	0.0066	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5
Zinc	81		2.7	0.62	mg/Kg	☼	10/15/15 08:55	10/15/15 22:10	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.025	0.0074	mg/Kg	☼	10/15/15 10:44	10/15/15 14:14	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.10				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	8400		2000	44	mg/Kg			10/14/15 20:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	20		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: MW-6-24.2
Date Collected: 09/30/15 15:46
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-3
Matrix: Solid
Percent Solids: 90.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		37	3.5	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
1,1,1-Trichloroethane	ND		37	5.2	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
1,1,2,2-Tetrachloroethane	ND		9.3	2.1	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
1,1,2-Trichloroethane	ND		11	2.6	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
1,1-Dichloroethane	ND		37	3.9	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
1,2,3-Trichloropropane	ND		37	11	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
1,2-Dibromoethane	ND		15	3.1	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
1,2-Dichloroethane	ND		15	3.1	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
1,2-Dichloropropane	ND		11	2.2	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
2-Butanone	ND		370	48	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
2-Chloroethyl vinyl ether	ND		190	5.7	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
2-Hexanone	ND		190	33	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
4-Methyl-2-pentanone	ND		190	27	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Acetone	ND		740	160	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Acrolein	ND		1100	84	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Acrylonitrile	ND		370	89	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Benzene	ND		15	3.2	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Bromochloromethane	ND		37	4.3	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Bromodichloromethane	ND		37	1.3	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Bromoform	ND		37	6.0	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Bromomethane	ND		130	12	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Carbon disulfide	ND		37	4.1	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Carbon tetrachloride	ND		19	3.5	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Chlorobenzene	ND		37	9.1	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Chlorodibromomethane	ND		19	2.6	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Chloroethane	ND		370	15	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Chloroform	ND		37	3.9	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Chloromethane	ND		93	9.4	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
cis-1,2-Dichloroethene	ND		37	4.5	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
cis-1,3-Dichloropropene	ND		15	1.7	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Dibromomethane	ND		56	12	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Dichlorodifluoromethane	ND		37	6.0	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Ethylbenzene	ND		37	1.9	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Iodomethane	ND		190	5.8	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Isopropylbenzene	ND		37	2.4	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Methyl tert-butyl ether	ND		37	5.6	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Methylene Chloride	ND		23	11	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
m-Xylene & p-Xylene	ND		37	2.8	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
o-Xylene	ND		37	2.8	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Styrene	ND		37	2.2	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
t-Butylbenzene	ND		37	2.9	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Tetrachloroethene	ND		19	4.9	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Toluene	ND		37	2.4	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
trans-1,2-Dichloroethene	ND		37	3.5	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
trans-1,3-Dichloropropene	ND		37	6.5	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
trans-1,4-Dichloro-2-butene	ND		190	15	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Trichloroethene	ND		22	2.9	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Trichlorofluoromethane	ND		37	5.5	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1
Vinyl acetate	ND		190	43	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1

Client Sample ID: MW-6-24.2
Date Collected: 09/30/15 15:46
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-3
Matrix: Solid
Percent Solids: 90.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		15	6.6	ug/Kg	☼	10/09/15 11:23	10/09/15 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 136*	*10/09/15 11:23*	*10/09/15 15:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 120*	*10/09/15 11:23*	*10/09/15 15:36*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/09/15 11:23*	*10/09/15 15:36*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*10/09/15 11:23*	*10/09/15 15:36*	*1*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/09/15 11:23*	*10/09/15 15:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
2-Methylnaphthalene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Dimethyl phthalate	ND		11	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Acenaphthylene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Acenaphthene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Diethyl phthalate	**16**	**J B**	22	1.6	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Fluorene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Phenanthrene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Anthracene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Di-n-butyl phthalate	**7.2**	**J**	55	5.5	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Fluoranthene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Pyrene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Butyl benzyl phthalate	**13**	**J B**	22	5.5	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Benzo[a]anthracene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Chrysene	ND		2.7	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Bis(2-ethylhexyl) phthalate	**35**	**J B**	66	5.5	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Di-n-octyl phthalate	**2.7**	**J**	55	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Benzo[b]fluoranthene	ND		2.2	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Benzo[k]fluoranthene	ND		2.7	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Benzo[a]pyrene	ND		3.3	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Indeno[1,2,3-cd]pyrene	ND		4.4	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Dibenz(a,h)anthracene	ND		4.4	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1
Benzo[g,h,i]perylene	ND		2.7	0.55	ug/Kg	☼	10/07/15 10:28	10/21/15 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*89*		*42 - 151*	*10/07/15 10:28*	*10/21/15 02:25*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.7	0.46	mg/Kg	☼	10/08/15 14:10	10/08/15 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*10/08/15 14:10*	*10/08/15 21:13*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.22	0.033	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
2,4'-DDE	ND	H	0.22	0.033	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
2,4'-DDT	ND	H	0.22	0.018	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
4,4'-DDD	ND	H	0.22	0.0081	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1

Client Sample ID: MW-6-24.2
Date Collected: 09/30/15 15:46
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-3
Matrix: Solid
Percent Solids: 90.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	0.22	0.015	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
4,4'-DDT	ND	H *	0.22	0.017	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Aldrin	ND	H	0.11	0.013	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
alpha-BHC	ND	H	0.11	0.030	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
alpha-Chlordane	ND	H	0.11	0.015	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
beta-BHC	ND	H *	0.11	0.012	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Chlordane (technical)	ND	H *	1.1	0.15	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
cis-Nonachlor	ND	H	0.22	0.021	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
delta-BHC	ND	H *	0.11	0.016	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Dieldrin	ND	H	0.22	0.013	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Endosulfan I	ND	H	0.11	0.011	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Endosulfan II	ND	H	0.22	0.012	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Endosulfan sulfate	**0.079**	**J H B ***	0.22	0.0050	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Endrin	ND	H *	0.22	0.010	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Endrin aldehyde	**0.83**	**H B**	0.22	0.022	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Endrin ketone	ND	H *	0.22	0.013	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
gamma-BHC (Lindane)	ND	H *	0.11	0.0078	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
gamma-Chlordane	ND	H	0.11	0.015	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Heptachlor	ND	H	0.22	0.016	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Heptachlor epoxide	ND	H *	0.11	0.0043	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Methoxychlor	ND	H *	1.1	0.014	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
oxy-Chlordane	ND	H	0.22	0.033	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
Toxaphene	ND	H	11	0.85	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1
trans-Nonachlor	ND	H	0.22	0.033	ug/Kg	☼	10/07/15 10:18	12/01/15 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*179*	*X*	*60 - 128*	*10/07/15 10:18*	*12/01/15 23:00*	*1*
Tetrachloro-m-xylene	*142*	*X*	*35 - 129*	*10/07/15 10:18*	*12/01/15 23:00*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.1	0.055	ug/Kg	☼	10/07/15 10:18	11/14/15 01:57	1
PCB-1221	ND		1.2	0.37	ug/Kg	☼	10/07/15 10:18	11/14/15 01:57	1
PCB-1232	ND		1.2	0.24	ug/Kg	☼	10/07/15 10:18	11/14/15 01:57	1
PCB-1242	ND		1.1	0.23	ug/Kg	☼	10/07/15 10:18	11/14/15 01:57	1
PCB-1248	ND		1.2	0.18	ug/Kg	☼	10/07/15 10:18	11/14/15 01:57	1
PCB-1254	ND		1.1	0.099	ug/Kg	☼	10/07/15 10:18	11/14/15 01:57	1
PCB-1260	ND		1.1	0.14	ug/Kg	☼	10/07/15 10:18	11/14/15 01:57	1
PCB-1262	ND		1.1	0.21	ug/Kg	☼	10/07/15 10:18	11/14/15 01:57	1
PCB-1268	ND		1.1	0.23	ug/Kg	☼	10/07/15 10:18	11/14/15 01:57	1
Polychlorinated biphenyls, Total	ND		1.2	0.37	ug/Kg	☼	10/07/15 10:18	11/14/15 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*50 - 140*	*10/07/15 10:18*	*11/14/15 01:57*	*1*
Tetrachloro-m-xylene	*54*		*45 - 135*	*10/07/15 10:18*	*11/14/15 01:57*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**8.3**	**J B**	27	3.9	mg/Kg	☼	10/06/15 14:54	10/07/15 18:56	1
Motor Oil (>C24-C36)	ND		55	10	mg/Kg	☼	10/06/15 14:54	10/07/15 18:56	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: MW-6-24.2
Date Collected: 09/30/15 15:46
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-3
Matrix: Solid
Percent Solids: 90.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	66		50 - 150	10/06/15 14:54	10/07/15 18:56	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		15	15	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Antimony	0.17		0.097	0.020	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Arsenic	3.8		0.24	0.088	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Barium	86		0.24	0.038	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Cadmium	0.14		0.097	0.0093	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Chromium	19		0.24	0.031	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Copper	20		0.19	0.048	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Lead	3.0		0.24	0.023	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Magnesium	7600		49	1.3	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Nickel	36		0.24	0.039	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Silver	0.012	J	0.097	0.0058	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5
Zinc	50		2.4	0.55	mg/Kg	☼	10/15/15 08:55	10/15/15 22:15	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022	0.0066	mg/Kg	☼	10/15/15 10:44	10/15/15 14:06	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47				SU			10/09/15 15:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	250	J	2000	44	mg/Kg			10/14/15 20:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	9.7		0.10	0.10	%			10/08/15 09:44	1

Client Sample ID: MW-2-2
Date Collected: 10/01/15 09:05
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-4
Matrix: Solid
Percent Solids: 77.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		63	6.0	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
1,1,1-Trichloroethane	ND		63	8.8	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
1,1,2,2-Tetrachloroethane	ND		16	3.6	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
1,1,2-Trichloroethane	ND		19	4.4	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
1,1-Dichloroethane	ND		63	6.6	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
1,2,3-Trichloropropane	ND		63	18	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
1,2-Dibromoethane	ND		25	5.3	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
1,2-Dichloroethane	ND		25	5.2	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
1,2-Dichloropropane	ND		19	3.8	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
2-Butanone	ND		630	82	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
2-Chloroethyl vinyl ether	ND		310	9.7	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
2-Hexanone	ND		310	56	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
4-Methyl-2-pentanone	ND		310	46	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Acetone	ND		1300	270	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Acrolein	ND		1900	140	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Acrylonitrile	ND		630	150	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Benzene	ND		25	5.5	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Bromochloromethane	ND		63	7.2	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Bromodichloromethane	ND		63	2.2	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Bromoform	ND		63	10	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Bromomethane	ND		220	21	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Carbon disulfide	ND		63	6.9	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Carbon tetrachloride	ND		31	6.0	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Chlorobenzene	ND		63	15	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Chlorodibromomethane	ND		31	4.4	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Chloroethane	ND		630	25	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Chloroform	ND		63	6.6	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Chloromethane	ND		160	16	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
cis-1,2-Dichloroethene	ND		63	7.7	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
cis-1,3-Dichloropropene	ND		25	2.8	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Dibromomethane	ND		94	21	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Dichlorodifluoromethane	ND		63	10	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Ethylbenzene	ND		63	3.1	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Iodomethane	ND		310	9.9	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Isopropylbenzene	ND		63	4.1	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Methyl tert-butyl ether	ND		63	9.4	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Methylene Chloride	ND		39	18	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
m-Xylene & p-Xylene	ND		63	4.7	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
o-Xylene	ND		63	4.7	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Styrene	ND		63	3.8	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
t-Butylbenzene	ND		63	4.9	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Tetrachloroethene	ND		31	8.3	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Toluene	ND		63	4.1	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
trans-1,2-Dichloroethene	ND		63	6.0	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
trans-1,3-Dichloropropene	ND		63	11	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
trans-1,4-Dichloro-2-butene	ND		310	25	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Trichloroethene	ND		38	4.9	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Trichlorofluoromethane	ND		63	9.3	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1
Vinyl acetate	ND		310	72	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1

Client Sample ID: MW-2-2
Date Collected: 10/01/15 09:05
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-4
Matrix: Solid
Percent Solids: 77.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		25	11	ug/Kg	☼	10/09/15 11:23	10/09/15 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 136*	*10/09/15 11:23*	*10/09/15 16:03*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 120*	*10/09/15 11:23*	*10/09/15 16:03*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 132*	*10/09/15 11:23*	*10/09/15 16:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/09/15 11:23*	*10/09/15 16:03*	*1*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/09/15 11:23*	*10/09/15 16:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.8**	**J**	2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
2-Methylnaphthalene	**3.4**		2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Dimethyl phthalate	ND		13	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Acenaphthylene	ND		2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Acenaphthene	ND		2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Diethyl phthalate	**20**	**J B**	25	1.9	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Fluorene	**0.85**	**J**	2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Phenanthrene	**5.4**		2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Anthracene	**0.84**	**J**	2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Di-n-butyl phthalate	**7.7**	**J**	63	6.3	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Fluoranthene	**8.9**		2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Pyrene	**8.3**		2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Butyl benzyl phthalate	**17**	**J B**	25	6.3	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Benzo[a]anthracene	**5.6**		2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Chrysene	**13**		3.2	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Bis(2-ethylhexyl) phthalate	**57**	**J B**	76	6.3	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Di-n-octyl phthalate	**6.2**	**J**	63	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Benzo[b]fluoranthene	**9.1**		2.5	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Benzo[k]fluoranthene	**3.7**		3.2	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Benzo[a]pyrene	**5.9**		3.8	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Indeno[1,2,3-cd]pyrene	ND		5.1	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Dibenz(a,h)anthracene	ND		5.1	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1
Benzo[g,h,i]perylene	**3.1**	**J**	3.2	0.63	ug/Kg	☼	10/07/15 10:28	10/21/15 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*93*		*42 - 151*	*10/07/15 10:28*	*10/21/15 02:51*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.3	0.79	mg/Kg	☼	10/08/15 14:10	10/08/15 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*	*10/08/15 14:10*	*10/08/15 21:46*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	1.3	0.19	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
2,4'-DDE	ND	H	1.3	0.19	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
2,4'-DDT	ND	H	1.3	0.10	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
4,4'-DDD	ND	H	1.3	0.047	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5

Client Sample ID: MW-2-2
Date Collected: 10/01/15 09:05
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-4
Matrix: Solid
Percent Solids: 77.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	1.3	0.089	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
4,4'-DDT	ND	H *	1.3	0.096	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Aldrin	ND	H	0.63	0.074	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
alpha-BHC	ND	H	0.63	0.17	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
alpha-Chlordane	ND	H	0.63	0.084	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
beta-BHC	ND	H *	0.63	0.072	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Chlordane (technical)	ND	H *	6.3	0.88	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
cis-Nonachlor	ND	H	1.3	0.12	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
delta-BHC	**0.27**	**J H B ***	0.63	0.093	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Dieldrin	ND	H	1.3	0.074	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Endosulfan I	ND	H	0.63	0.064	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Endosulfan II	ND	H	1.3	0.067	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Endosulfan sulfate	**0.23**	**J H B ***	1.3	0.029	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Endrin	ND	H *	1.3	0.059	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Endrin aldehyde	ND	H	1.3	0.12	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Endrin ketone	ND	H *	1.3	0.076	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
gamma-BHC (Lindane)	ND	H *	0.63	0.045	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
gamma-Chlordane	ND	H	0.63	0.084	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Heptachlor	ND	H	1.3	0.095	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Heptachlor epoxide	ND	H *	0.63	0.025	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Methoxychlor	ND	H *	6.3	0.081	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
oxy-Chlordane	ND	H	1.3	0.19	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
Toxaphene	ND	H	63	4.9	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5
trans-Nonachlor	ND	H	1.3	0.19	ug/Kg	☼	10/07/15 10:18	12/01/15 23:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*180*	*X*	*60 - 128*	*10/07/15 10:18*	*12/01/15 23:17*	*5*
Tetrachloro-m-xylene	*187*	*X*	*35 - 129*	*10/07/15 10:18*	*12/01/15 23:17*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.063	ug/Kg	☼	10/07/15 10:18	11/14/15 02:14	1
PCB-1221	ND		1.4	0.43	ug/Kg	☼	10/07/15 10:18	11/14/15 02:14	1
PCB-1232	ND		1.4	0.28	ug/Kg	☼	10/07/15 10:18	11/14/15 02:14	1
PCB-1242	ND		1.3	0.26	ug/Kg	☼	10/07/15 10:18	11/14/15 02:14	1
PCB-1248	ND		1.4	0.20	ug/Kg	☼	10/07/15 10:18	11/14/15 02:14	1
PCB-1254	ND		1.3	0.11	ug/Kg	☼	10/07/15 10:18	11/14/15 02:14	1
PCB-1260	ND		1.3	0.16	ug/Kg	☼	10/07/15 10:18	11/14/15 02:14	1
PCB-1262	ND		1.3	0.24	ug/Kg	☼	10/07/15 10:18	11/14/15 02:14	1
PCB-1268	ND		1.3	0.26	ug/Kg	☼	10/07/15 10:18	11/14/15 02:14	1
Polychlorinated biphenyls, Total	ND		1.4	0.43	ug/Kg	☼	10/07/15 10:18	11/14/15 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*50 - 140*	*10/07/15 10:18*	*11/14/15 02:14*	*1*
Tetrachloro-m-xylene	*73*		*45 - 135*	*10/07/15 10:18*	*11/14/15 02:14*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**15**	**J B**	31	4.5	mg/Kg	☼	10/06/15 14:54	10/07/15 19:15	1
Motor Oil (>C24-C36)	**78**		62	11	mg/Kg	☼	10/06/15 14:54	10/07/15 19:15	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: MW-2-2
Date Collected: 10/01/15 09:05
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-4
Matrix: Solid
Percent Solids: 77.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	57		50 - 150	10/06/15 14:54	10/07/15 19:15	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	28000		17	17	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Antimony	0.55		0.11	0.024	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Arsenic	9.0		0.28	0.10	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Barium	150		0.28	0.044	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Cadmium	0.23		0.11	0.011	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Chromium	22		0.28	0.036	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Copper	26		0.23	0.056	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Lead	11		0.28	0.027	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Magnesium	6100		57	1.5	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Nickel	18		0.28	0.046	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Silver	0.043	J	0.11	0.0068	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5
Zinc	72		2.8	0.64	mg/Kg	☼	10/15/15 08:55	10/15/15 22:19	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.025	0.0074	mg/Kg	☼	10/15/15 10:44	10/15/15 14:16	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.33				SU			10/09/15 15:52	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	1700	J	2000	44	mg/Kg			10/14/15 20:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	22		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: MW-4-4
Date Collected: 10/01/15 10:25
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-6
Matrix: Solid
Percent Solids: 75.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		63	6.0	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
1,1,1-Trichloroethane	ND		63	8.8	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
1,1,2,2-Tetrachloroethane	ND		16	3.6	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
1,1,2-Trichloroethane	ND		19	4.4	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
1,1-Dichloroethane	ND		63	6.6	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
1,2,3-Trichloropropane	ND		63	18	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
1,2-Dibromoethane	ND		25	5.4	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
1,2-Dichloroethane	ND		25	5.2	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
1,2-Dichloropropane	ND		19	3.8	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
2-Butanone	ND		630	82	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
2-Chloroethyl vinyl ether	ND		320	9.8	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
2-Hexanone	ND		320	56	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
4-Methyl-2-pentanone	ND		320	46	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Acetone	ND		1300	270	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Acrolein	ND		1900	140	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Acrylonitrile	ND		630	150	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Benzene	**19**	**J B**	25	5.5	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Bromochloromethane	ND		63	7.2	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Bromodichloromethane	ND		63	2.2	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Bromoform	ND		63	10	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Bromomethane	ND		220	21	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Carbon disulfide	ND		63	6.9	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Carbon tetrachloride	ND		32	6.0	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Chlorobenzene	ND		63	15	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Chlorodibromomethane	ND		32	4.4	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Chloroethane	ND		630	25	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Chloroform	ND		63	6.6	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Chloromethane	ND		160	16	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
cis-1,2-Dichloroethene	ND		63	7.7	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
cis-1,3-Dichloropropene	ND		25	2.8	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Dibromomethane	ND		95	21	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Dichlorodifluoromethane	ND		63	10	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Ethylbenzene	ND		63	3.2	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Iodomethane	ND		320	9.9	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Isopropylbenzene	ND		63	4.1	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Methyl tert-butyl ether	ND		63	9.5	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Methylene Chloride	ND		39	18	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
m-Xylene & p-Xylene	**12**	**J**	63	4.7	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
o-Xylene	**9.1**	**J B**	63	4.7	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Styrene	ND		63	3.8	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
t-Butylbenzene	ND		63	4.9	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Tetrachloroethene	**37**	**B**	32	8.4	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Toluene	**14**	**J B**	63	4.1	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
trans-1,2-Dichloroethene	ND		63	6.0	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
trans-1,3-Dichloropropene	ND		63	11	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
trans-1,4-Dichloro-2-butene	ND		320	25	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Trichloroethene	ND		38	4.9	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Trichlorofluoromethane	ND		63	9.3	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1
Vinyl acetate	ND		320	73	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1

Client Sample ID: MW-4-4
Date Collected: 10/01/15 10:25
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-6
Matrix: Solid
Percent Solids: 75.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		25	11	ug/Kg	☼	10/15/15 13:09	10/15/15 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*	*10/15/15 13:09*	*10/15/15 19:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*	*10/15/15 13:09*	*10/15/15 19:34*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 132*	*10/15/15 13:09*	*10/15/15 19:34*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*10/15/15 13:09*	*10/15/15 19:34*	*1*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/15/15 13:09*	*10/15/15 19:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
2-Methylnaphthalene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Dimethyl phthalate	ND		13	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Acenaphthylene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Acenaphthene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Diethyl phthalate	**18**	**J B**	26	2.0	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Fluorene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Phenanthrene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Anthracene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Di-n-butyl phthalate	**12**	**J**	65	6.5	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Fluoranthene	**0.81**	**J**	2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Pyrene	**1.0**	**J**	2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Butyl benzyl phthalate	**23**	**J B**	26	6.5	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Benzo[a]anthracene	**1.5**	**J**	2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Chrysene	**1.0**	**J**	3.3	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Bis(2-ethylhexyl) phthalate	**49**	**J B**	78	6.5	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Di-n-octyl phthalate	**6.7**	**J**	65	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Benzo[b]fluoranthene	**2.0**	**J**	2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Benzo[k]fluoranthene	**0.97**	**J**	3.3	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Benzo[a]pyrene	**1.3**	**J**	3.9	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Dibenz(a,h)anthracene	ND		5.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1
Benzo[g,h,i]perylene	ND		3.3	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*78*		*42 - 151*	*10/07/15 10:28*	*10/21/15 03:41*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.8	0.73	mg/Kg	☼	10/08/15 14:10	10/08/15 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*10/08/15 14:10*	*10/08/15 22:52*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.53	0.079	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
2,4'-DDE	ND	H	0.53	0.079	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
2,4'-DDT	ND	H	0.53	0.043	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
4,4'-DDD	ND	H	0.53	0.020	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2

Client Sample ID: MW-4-4
Date Collected: 10/01/15 10:25
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-6
Matrix: Solid
Percent Solids: 75.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	0.53	0.037	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
4,4'-DDT	ND	H *	0.53	0.040	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Aldrin	ND	H	0.26	0.031	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
alpha-BHC	ND	H	0.26	0.073	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
alpha-Chlordane	ND	H	0.26	0.035	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
beta-BHC	ND	H *	0.26	0.030	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Chlordane (technical)	ND	H *	2.6	0.37	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
cis-Nonachlor	ND	H	0.53	0.051	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
delta-BHC	ND	H *	0.26	0.039	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Dieldrin	ND	H	0.53	0.031	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Endosulfan I	**0.062**	**J H B**	0.26	0.027	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Endosulfan II	ND	H	0.53	0.028	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Endosulfan sulfate	ND	H *	0.53	0.012	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Endrin	ND	H *	0.53	0.025	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Endrin aldehyde	**0.85**	**H B**	0.53	0.052	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Endrin ketone	ND	H *	0.53	0.032	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
gamma-BHC (Lindane)	ND	H *	0.26	0.019	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
gamma-Chlordane	ND	H	0.26	0.035	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Heptachlor	ND	H	0.53	0.040	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Heptachlor epoxide	ND	H *	0.26	0.010	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Methoxychlor	ND	H *	2.6	0.034	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
oxy-Chlordane	ND	H	0.53	0.079	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
Toxaphene	ND	H	26	2.1	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2
trans-Nonachlor	ND	H	0.53	0.079	ug/Kg	☼	10/07/15 10:18	12/01/15 23:51	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*175*	*X*	*60 - 128*	*10/07/15 10:18*	*12/01/15 23:51*	*2*
Tetrachloro-m-xylene	*141*	*X*	*35 - 129*	*10/07/15 10:18*	*12/01/15 23:51*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	1.3	0.066	ug/Kg	☼	10/07/15 10:18	11/14/15 02:47	1
PCB-1221	ND	*	1.5	0.45	ug/Kg	☼	10/07/15 10:18	11/14/15 02:47	1
PCB-1232	ND	*	1.5	0.29	ug/Kg	☼	10/07/15 10:18	11/14/15 02:47	1
PCB-1242	ND	*	1.3	0.28	ug/Kg	☼	10/07/15 10:18	11/14/15 02:47	1
PCB-1248	ND	*	1.5	0.21	ug/Kg	☼	10/07/15 10:18	11/14/15 02:47	1
PCB-1254	ND	*	1.3	0.12	ug/Kg	☼	10/07/15 10:18	11/14/15 02:47	1
PCB-1260	ND	*	1.3	0.17	ug/Kg	☼	10/07/15 10:18	11/14/15 02:47	1
PCB-1262	ND	*	1.3	0.25	ug/Kg	☼	10/07/15 10:18	11/14/15 02:47	1
PCB-1268	ND	*	1.3	0.28	ug/Kg	☼	10/07/15 10:18	11/14/15 02:47	1
Polychlorinated biphenyls, Total	ND		1.5	0.45	ug/Kg	☼	10/07/15 10:18	11/14/15 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*	*	*50 - 140*	*10/07/15 10:18*	*11/14/15 02:47*	*1*
Tetrachloro-m-xylene	*49*	*	*45 - 135*	*10/07/15 10:18*	*11/14/15 02:47*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**8.1**	**J B**	32	4.6	mg/Kg	☼	10/06/15 14:54	10/07/15 19:52	1
Motor Oil (>C24-C36)	**12**	**J**	63	12	mg/Kg	☼	10/06/15 14:54	10/07/15 19:52	1

Client Sample ID: MW-4-4

Date Collected: 10/01/15 10:25
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-6

Matrix: Solid
Percent Solids: 75.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*66*		*50 - 150*	*10/06/15 14:54*	*10/07/15 19:52*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18000		17	17	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Antimony	0.43		0.11	0.024	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Arsenic	6.5		0.28	0.10	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Barium	150		0.28	0.044	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Cadmium	0.23		0.11	0.011	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Chromium	22		0.28	0.036	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Copper	25		0.23	0.056	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Lead	10		0.28	0.027	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Magnesium	6000		57	1.5	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Nickel	20		0.28	0.046	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Silver	0.046	J	0.11	0.0068	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5
Zinc	72		2.8	0.63	mg/Kg	☼	10/15/15 08:55	10/15/15 22:23	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.024	0.0071	mg/Kg	☼	10/15/15 10:44	10/15/15 14:18	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.28				SU			10/09/15 15:48	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	280	J	2000	44	mg/Kg			10/14/15 20:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	25		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: MW-2-8-A
Date Collected: 10/01/15 09:25
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-12
Matrix: Solid
Percent Solids: 75.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	65	10	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Chloromethane	ND	H	160	16	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Vinyl chloride	ND	H	26	11	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Bromomethane	ND	H	230	22	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Chloroethane	ND	H	650	26	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Trichlorofluoromethane	ND	H	65	9.5	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Acrolein	ND	H	1900	150	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Iodomethane	ND	H	320	10	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Carbon disulfide	ND	H	65	7.1	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Acetone	ND	H	1300	280	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Methyl tert-butyl ether	ND	H	65	9.7	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
trans-1,2-Dichloroethene	ND	H	65	6.1	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Acrylonitrile	ND	H	650	150	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
1,1-Dichloroethane	ND	H	65	6.8	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Vinyl acetate	ND	H	320	74	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
cis-1,2-Dichloroethene	ND	H	65	7.9	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
2-Butanone	ND	H	650	84	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Bromochloromethane	ND	H	65	7.4	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Chloroform	ND	H	65	6.8	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
1,1,1-Trichloroethane	ND	H	65	9.0	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Carbon tetrachloride	ND	H	32	6.1	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Benzene	ND	H	26	5.6	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
1,2-Dichloroethane	ND	H	26	5.3	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Trichloroethene	ND	H	39	5.0	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
1,2-Dichloropropane	ND	H	19	3.9	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Dibromomethane	ND	H	97	21	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Bromodichloromethane	ND	H	65	2.3	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
2-Chloroethyl vinyl ether	ND	H	320	10	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
cis-1,3-Dichloropropene	ND	H	26	2.9	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
4-Methyl-2-pentanone	ND	H	320	48	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Toluene	ND	H	65	4.2	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
trans-1,3-Dichloropropene	ND	H	65	11	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
1,1,2-Trichloroethane	ND	H	19	4.5	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Tetrachloroethene	ND	H	32	8.5	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
2-Hexanone	ND	H	320	57	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Chlorodibromomethane	ND	H	32	4.5	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
1,2-Dibromoethane	ND	H	26	5.5	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Chlorobenzene	ND	H	65	16	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
1,1,1,2-Tetrachloroethane	ND	H	65	6.1	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Ethylbenzene	ND	H	65	3.2	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
m-Xylene & p-Xylene	ND	H	65	4.8	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
o-Xylene	ND	H	65	4.8	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Styrene	ND	H	65	3.9	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Bromoform	ND	H	65	10	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
Isopropylbenzene	ND	H	65	4.2	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
1,1,2,2-Tetrachloroethane	ND	H	16	3.7	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
1,2,3-Trichloropropane	ND	H	65	19	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
trans-1,4-Dichloro-2-butene	ND	H	320	26	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1
t-Butylbenzene	ND	H	65	5.0	ug/Kg	☼	10/12/15 10:34	10/12/15 19:24	1

Client Sample ID: MW-2-8-A

Date Collected: 10/01/15 09:25
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-12

Matrix: Solid
Percent Solids: 75.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/12/15 10:34*	*10/12/15 19:24*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*	*10/12/15 10:34*	*10/12/15 19:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*71 - 136*	*10/12/15 10:34*	*10/12/15 19:24*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 120*	*10/12/15 10:34*	*10/12/15 19:24*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 132*	*10/12/15 10:34*	*10/12/15 19:24*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	H	40	19	ug/Kg	☼	10/12/15 10:34	10/22/15 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	*95*		*65 - 140*	*10/12/15 10:34*	*10/22/15 17:44*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/12/15 10:34*	*10/22/15 17:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*	*10/12/15 10:34*	*10/22/15 17:44*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 120*	*10/12/15 10:34*	*10/22/15 17:44*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 132*	*10/12/15 10:34*	*10/22/15 17:44*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
2-Methylnaphthalene	ND		26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Dimethyl phthalate	ND		130	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Acenaphthylene	ND		26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Acenaphthene	ND		26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Diethyl phthalate	**120**	**J B**	260	20	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Fluorene	ND		26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Phenanthrene	ND		26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Anthracene	ND		26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Di-n-butyl phthalate	ND		650	65	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Fluoranthene	ND		26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Pyrene	ND		26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Butyl benzyl phthalate	ND		260	65	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Benzo[a]anthracene	**13**	**J**	26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Chrysene	ND		33	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Bis(2-ethylhexyl) phthalate	**100**	**J B**	790	65	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Di-n-octyl phthalate	ND		650	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Benzo[b]fluoranthene	ND		26	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Benzo[k]fluoranthene	ND		33	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Benzo[a]pyrene	ND		39	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Indeno[1,2,3-cd]pyrene	ND		52	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Dibenz(a,h)anthracene	ND		52	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10
Benzo[g,h,i]perylene	ND		33	6.5	ug/Kg	☼	10/09/15 18:44	10/16/15 23:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*109*		*42 - 151*	*10/09/15 18:44*	*10/16/15 23:22*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND	H	6.5	0.81	mg/Kg	☼	10/12/15 12:37	10/13/15 05:24	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: MW-2-8-A
Date Collected: 10/01/15 09:25
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-12
Matrix: Solid
Percent Solids: 75.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*90*		*50 - 150*	*10/12/15 12:37*	*10/13/15 05:24*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.26	0.040	ug/Kg	☼	10/09/15 14:01	11/18/15 08:50	1
2,4'-DDE	ND		0.26	0.040	ug/Kg	☼	10/09/15 14:01	11/18/15 08:50	1
2,4'-DDT	ND		0.26	0.021	ug/Kg	☼	10/09/15 14:01	11/18/15 08:50	1
4,4'-DDD	**0.099**	**J B**	0.26	0.0098	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
4,4'-DDE	**0.035**	**J**	0.26	0.019	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
4,4'-DDT	**0.026**	**J**	0.26	0.020	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Aldrin	ND		0.13	0.016	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
alpha-BHC	ND		0.13	0.037	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
alpha-Chlordane	**0.055**	**J**	0.13	0.018	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
beta-BHC	ND		0.13	0.015	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Chlordane (technical)	ND		1.3	0.18	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
cis-Nonachlor	ND		0.26	0.025	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
cis-Nonachlor	ND		0.26	0.025	ug/Kg	☼	10/09/15 14:01	11/18/15 08:50	1
delta-BHC	ND		0.13	0.020	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Dieldrin	**0.035**	**J**	0.26	0.016	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Endosulfan I	ND		0.13	0.013	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Endosulfan II	ND		0.26	0.014	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Endosulfan sulfate	ND		0.26	0.0061	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Endrin	ND		0.26	0.012	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Endrin aldehyde	ND		0.26	0.026	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Endrin ketone	**0.29**	**B**	0.26	0.016	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
gamma-BHC (Lindane)	**0.0097**	**J B**	0.13	0.0094	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
gamma-Chlordane	ND		0.13	0.018	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Heptachlor	ND		0.26	0.020	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Heptachlor epoxide	**0.015**	**J**	0.13	0.0051	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
Methoxychlor	**0.12**	**J**	1.3	0.017	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
oxy-Chlordane	ND		0.26	0.040	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
oxy-Chlordane	ND		0.26	0.040	ug/Kg	☼	10/09/15 14:01	11/18/15 08:50	1
Toxaphene	ND		13	1.0	ug/Kg	☼	10/09/15 14:01	10/19/15 19:25	1
trans-Nonachlor	ND		0.26	0.040	ug/Kg	☼	10/09/15 14:01	11/18/15 08:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*57*	*X*	*60 - 128*	*10/09/15 14:01*	*10/19/15 19:25*	*1*
Tetrachloro-m-xylene	*62*		*35 - 129*	*10/09/15 14:01*	*10/19/15 19:25*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.066	ug/Kg	☼	10/09/15 14:01	10/18/15 16:37	1
PCB-1221	ND		1.5	0.45	ug/Kg	☼	10/09/15 14:01	10/18/15 16:37	1
PCB-1232	ND		1.5	0.29	ug/Kg	☼	10/09/15 14:01	10/18/15 16:37	1
PCB-1242	ND		1.3	0.28	ug/Kg	☼	10/09/15 14:01	10/18/15 16:37	1
PCB-1248	ND		1.5	0.21	ug/Kg	☼	10/09/15 14:01	10/18/15 16:37	1
PCB-1254	ND		1.3	0.12	ug/Kg	☼	10/09/15 14:01	10/18/15 16:37	1
PCB-1260	ND		1.3	0.17	ug/Kg	☼	10/09/15 14:01	10/18/15 16:37	1
PCB-1262	ND		1.3	0.25	ug/Kg	☼	10/09/15 14:01	10/18/15 16:37	1
PCB-1268	ND		1.3	0.28	ug/Kg	☼	10/09/15 14:01	10/18/15 16:37	1
Polychlorinated biphenyls, Total	ND		1.5	0.45	ug/Kg	☼	10/09/15 14:01	10/18/15 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		50 - 140	10/09/15 14:01	10/18/15 16:37	1
Tetrachloro-m-xylene	55		45 - 135	10/09/15 14:01	10/18/15 16:37	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	4.7	J	32	4.5	mg/Kg	☼	10/11/15 08:58	10/12/15 20:07	1
Motor Oil (>C24-C36)	14	J	63	11	mg/Kg	☼	10/11/15 08:58	10/12/15 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	10/11/15 08:58	10/12/15 20:07	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	22000		17	17	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Antimony	0.51		0.12	0.024	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Arsenic	8.1		0.29	0.10	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Barium	150		0.29	0.045	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Cadmium	0.20		0.12	0.011	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Chromium	25		0.29	0.036	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Copper	23		0.23	0.057	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Lead	13		0.29	0.028	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Magnesium	6000		58	1.5	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Nickel	19		0.29	0.047	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Silver	0.039	J	0.12	0.0069	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5
Zinc	73		2.9	0.65	mg/Kg	☼	10/15/15 08:55	10/15/15 22:28	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.025	0.0074	mg/Kg	☼	10/15/15 10:44	10/15/15 14:21	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.92				SU			10/09/15 16:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	660	J	2000	44	mg/Kg			10/14/15 20:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76		0.10	0.10	%			10/09/15 17:13	1
Percent Moisture	24		0.10	0.10	%			10/09/15 17:13	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-202892/1-A
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	170	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Acrolein	ND		1200	91	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Acrylonitrile	ND		400	96	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
2-Butanone	ND		400	52	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Bromomethane	ND		140	13	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Carbon disulfide	ND		40	4.4	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Benzene	ND		16	3.5	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Chloroethane	ND		400	16	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Chloroform	ND		40	4.2	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Chloromethane	15.9	J	100	10	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Dibromomethane	ND		60	13	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Iodomethane	ND		200	6.3	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
2-Hexanone	ND		200	36	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Methylene Chloride	ND		25	12	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Ethylbenzene	ND		40	2.0	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Tetrachloroethene	ND		20	5.3	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Toluene	ND		40	2.6	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
o-Xylene	ND		40	3.0	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Styrene	ND		40	2.4	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Bromoform	ND		40	6.5	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Isopropylbenzene	ND		40	2.6	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Trichloroethene	ND		24	3.1	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Trichlorofluoromethane	14.9	J	40	5.9	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
t-Butylbenzene	ND		40	3.1	ug/Kg		10/09/15 11:23	10/09/15 12:00	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-202892/1-A
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		200	46	ug/Kg		10/09/15 11:23	10/09/15 12:00	1
Vinyl chloride	16.6		16	7.1	ug/Kg		10/09/15 11:23	10/09/15 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 136*	*10/09/15 11:23*	*10/09/15 12:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*	*10/09/15 11:23*	*10/09/15 12:00*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*10/09/15 11:23*	*10/09/15 12:00*	*1*
Trifluorotoluene (Surr)	*101*		*65 - 140*	*10/09/15 11:23*	*10/09/15 12:00*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 132*	*10/09/15 11:23*	*10/09/15 12:00*	*1*

Lab Sample ID: LCS 580-202892/2-A
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3200	2950		ug/Kg		92	20 - 160
Acrolein	4750	3660		ug/Kg		77	10 - 125
Acrylonitrile	8010	7770		ug/Kg		97	74 - 117
1,1-Dichloroethane	800	720		ug/Kg		90	70 - 128
2-Butanone	3200	2720		ug/Kg		85	30 - 160
Bromochloromethane	802	745		ug/Kg		93	78 - 123
Bromomethane	801	605		ug/Kg		76	57 - 148
Carbon disulfide	804	717		ug/Kg		89	45 - 160
1,1,1-Trichloroethane	803	737		ug/Kg		92	63 - 135
Carbon tetrachloride	802	730		ug/Kg		91	59 - 145
Benzene	803	726		ug/Kg		90	70 - 128
1,2-Dichloroethane	801	698		ug/Kg		87	71 - 128
Chloroethane	802	699		ug/Kg		87	48 - 167
Chloroform	800	715		ug/Kg		89	78 - 125
1,2-Dichloropropane	801	728		ug/Kg		91	76 - 161
Chloromethane	803	610		ug/Kg		76	55 - 136
cis-1,2-Dichloroethene	801	709		ug/Kg		89	70 - 130
Bromodichloromethane	803	750		ug/Kg		93	58 - 133
2-Chloroethyl vinyl ether	800	805		ug/Kg		101	60 - 150
cis-1,3-Dichloropropene	802	748		ug/Kg		93	69 - 129
Dibromomethane	803	716		ug/Kg		89	78 - 126
4-Methyl-2-pentanone	3200	2980		ug/Kg		93	45 - 145
Dichlorodifluoromethane	802	606		ug/Kg		76	38 - 150
Iodomethane	803	724		ug/Kg		90	44 - 148
1,1,2-Trichloroethane	802	763		ug/Kg		95	77 - 124
Methyl tert-butyl ether	801	664		ug/Kg		83	65 - 125
2-Hexanone	3200	3190		ug/Kg		100	45 - 145
Methylene Chloride	804	688		ug/Kg		86	57 - 146
Chlorodibromomethane	801	782		ug/Kg		98	42 - 129
1,2-Dibromoethane	801	781		ug/Kg		97	69 - 126
Chlorobenzene	803	760		ug/Kg		95	75 - 120
1,1,1,2-Tetrachloroethane	803	735		ug/Kg		92	72 - 123
Ethylbenzene	803	751		ug/Kg		94	78 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-202892/2-A
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	802	752		ug/Kg		94	56 - 155
m-Xylene & p-Xylene	802	754		ug/Kg		94	78 - 126
Toluene	801	736		ug/Kg		92	75 - 126
o-Xylene	801	741		ug/Kg		92	77 - 127
Styrene	801	794		ug/Kg		99	79 - 127
trans-1,2-Dichloroethene	802	718		ug/Kg		90	76 - 131
Bromoform	802	728		ug/Kg		91	50 - 124
trans-1,3-Dichloropropene	801	778		ug/Kg		97	72 - 129
Isopropylbenzene	801	760		ug/Kg		95	79 - 127
1,1,2,2-Tetrachloroethane	801	766		ug/Kg		96	73 - 125
Trichloroethene	802	739		ug/Kg		92	83 - 124
1,2,3-Trichloropropane	801	767		ug/Kg		96	77 - 123
Trichlorofluoromethane	801	701		ug/Kg		88	47 - 165
trans-1,4-Dichloro-2-butene	800	848		ug/Kg		106	42 - 160
t-Butylbenzene	800	751		ug/Kg		94	71 - 136
Vinyl acetate	2000	1870		ug/Kg		93	19 - 144
Vinyl chloride	805	657		ug/Kg		82	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*71 - 136*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*102*		*65 - 140*
Dibromofluoromethane (Surr)	*99*		*75 - 132*

Lab Sample ID: LCSD 580-202892/3-A
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3200	2670		ug/Kg		83	20 - 160	10	30
Acrolein	4750	3470		ug/Kg		73	10 - 125	5	30
Acrylonitrile	8010	7420		ug/Kg		93	74 - 117	5	30
1,1-Dichloroethane	800	735		ug/Kg		92	70 - 128	2	21
2-Butanone	3200	2540		ug/Kg		79	30 - 160	7	30
Bromochloromethane	802	758		ug/Kg		95	78 - 123	2	19
Bromomethane	801	691		ug/Kg		86	57 - 148	13	29
Carbon disulfide	804	737		ug/Kg		92	45 - 160	3	30
1,1,1-Trichloroethane	803	758		ug/Kg		94	63 - 135	3	20
Carbon tetrachloride	802	747		ug/Kg		93	59 - 145	2	19
Benzene	803	745		ug/Kg		93	70 - 128	3	19
1,2-Dichloroethane	801	729		ug/Kg		91	71 - 128	4	18
Chloroethane	802	713		ug/Kg		89	48 - 167	2	53
Chloroform	800	734		ug/Kg		92	78 - 125	3	17
1,2-Dichloropropane	801	742		ug/Kg		93	76 - 161	2	15
Chloromethane	803	641		ug/Kg		80	55 - 136	5	26
cis-1,2-Dichloroethene	801	732		ug/Kg		91	70 - 130	3	19
Bromodichloromethane	803	775		ug/Kg		97	58 - 133	3	19

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-202892/3-A
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202892

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloroethyl vinyl ether			800	781		ug/Kg		98	60 - 150	3	30
cis-1,3-Dichloropropene			802	768		ug/Kg		96	69 - 129	3	19
Dibromomethane			803	751		ug/Kg		94	78 - 126	5	18
4-Methyl-2-pentanone			3200	2760		ug/Kg		86	45 - 145	8	30
Dichlorodifluoromethane			802	615		ug/Kg		77	38 - 150	1	26
Iodomethane			803	748		ug/Kg		93	44 - 148	3	30
1,1,2-Trichloroethane			802	775		ug/Kg		97	77 - 124	2	18
Methyl tert-butyl ether			801	692		ug/Kg		86	65 - 125	4	30
2-Hexanone			3200	2920		ug/Kg		91	45 - 145	9	30
Methylene Chloride			804	704		ug/Kg		88	57 - 146	2	21
Chlorodibromomethane			801	793		ug/Kg		99	42 - 129	1	23
1,2-Dibromoethane			801	778		ug/Kg		97	69 - 126	0	21
Chlorobenzene			803	779		ug/Kg		97	75 - 120	3	21
1,1,1,2-Tetrachloroethane			803	747		ug/Kg		93	72 - 123	2	20
Ethylbenzene			803	777		ug/Kg		97	78 - 126	3	23
Tetrachloroethene			802	777		ug/Kg		97	56 - 155	3	27
m-Xylene & p-Xylene			802	777		ug/Kg		97	78 - 126	3	23
Toluene			801	759		ug/Kg		95	75 - 126	3	19
o-Xylene			801	755		ug/Kg		94	77 - 127	2	22
Styrene			801	815		ug/Kg		102	79 - 127	3	21
trans-1,2-Dichloroethene			802	738		ug/Kg		92	76 - 131	3	18
Bromoform			802	717		ug/Kg		89	50 - 124	2	25
trans-1,3-Dichloropropene			801	795		ug/Kg		99	72 - 129	2	20
Isopropylbenzene			801	772		ug/Kg		96	79 - 127	2	20
1,1,2,2-Tetrachloroethane			801	731		ug/Kg		91	73 - 125	5	22
Trichloroethene			802	759		ug/Kg		95	83 - 124	3	17
1,2,3-Trichloropropane			801	740		ug/Kg		92	77 - 123	4	23
Trichlorofluoromethane			801	720		ug/Kg		90	47 - 165	3	54
trans-1,4-Dichloro-2-butene			800	817		ug/Kg		102	42 - 160	4	30
t-Butylbenzene			800	785		ug/Kg		98	71 - 136	4	27
Vinyl acetate			2000	1820		ug/Kg		91	19 - 144	3	30
Vinyl chloride			805	753		ug/Kg		94	67 - 131	14	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 136*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*102*		*65 - 140*
Dibromofluoromethane (Surr)	*98*		*75 - 132*

Lab Sample ID: 580-53837-1 MS
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 202892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		4270	4870		ug/Kg	☼	114	20 - 160
Acrolein	ND		6350	5850		ug/Kg	☼	92	10 - 125
Acrylonitrile	ND		10700	12200		ug/Kg	☼	114	74 - 117

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-53837-1 MS
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 202892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		1070	1080		ug/Kg	☼	101	75 - 125
2-Butanone	ND		4270	4740		ug/Kg	☼	111	30 - 160
Bromochloromethane	ND		1070	1130		ug/Kg	☼	106	70 - 125
Bromomethane	ND		1070	1170		ug/Kg	☼	110	30 - 160
Carbon disulfide	ND		1070	1080		ug/Kg	☼	101	45 - 160
1,1,1-Trichloroethane	ND		1070	1120		ug/Kg	☼	105	70 - 135
Carbon tetrachloride	ND		1070	1100		ug/Kg	☼	103	65 - 135
Benzene	ND		1070	1100		ug/Kg	☼	103	75 - 125
1,2-Dichloroethane	ND		1070	1100		ug/Kg	☼	103	70 - 135
Chloroethane	ND		1070	1080		ug/Kg	☼	101	40 - 155
Chloroform	ND		1070	1080		ug/Kg	☼	101	70 - 125
1,2-Dichloropropane	ND		1070	1110		ug/Kg	☼	104	70 - 120
Chloromethane	ND		1070	966		ug/Kg	☼	90	50 - 130
cis-1,2-Dichloroethene	ND		1070	1080		ug/Kg	☼	101	65 - 125
Bromodichloromethane	ND		1070	1160		ug/Kg	☼	109	70 - 130
2-Chloroethyl vinyl ether	ND		1070	1230		ug/Kg	☼	115	60 - 150
cis-1,3-Dichloropropene	ND		1070	1140		ug/Kg	☼	106	70 - 125
Dibromomethane	ND		1070	1150		ug/Kg	☼	108	75 - 130
4-Methyl-2-pentanone	ND		4270	4620		ug/Kg	☼	108	45 - 145
Dichlorodifluoromethane	ND		1070	960		ug/Kg	☼	90	35 - 135
Iodomethane	ND		1070	1130		ug/Kg	☼	105	44 - 148
1,1,2-Trichloroethane	ND		1070	1170		ug/Kg	☼	109	60 - 125
Methyl tert-butyl ether	ND		1070	1110		ug/Kg	☼	104	59 - 137
2-Hexanone	ND		4270	4840		ug/Kg	☼	113	45 - 145
Methylene Chloride	ND		1070	1050		ug/Kg	☼	98	55 - 140
Chlorodibromomethane	ND		1070	1200		ug/Kg	☼	112	65 - 130
1,2-Dibromoethane	ND		1070	1190		ug/Kg	☼	111	70 - 125
Chlorobenzene	ND		1070	1130		ug/Kg	☼	106	75 - 125
1,1,1,2-Tetrachloroethane	ND		1070	1110		ug/Kg	☼	103	75 - 125
Ethylbenzene	ND		1070	1120		ug/Kg	☼	105	75 - 125
Tetrachloroethene	ND		1070	1100		ug/Kg	☼	103	65 - 140
m-Xylene & p-Xylene	ND		1070	1120		ug/Kg	☼	104	80 - 125
Toluene	ND		1070	1100		ug/Kg	☼	103	70 - 125
o-Xylene	ND		1070	1110		ug/Kg	☼	104	75 - 125
Styrene	ND		1070	1190		ug/Kg	☼	111	75 - 125
trans-1,2-Dichloroethene	ND		1070	1070		ug/Kg	☼	100	65 - 135
Bromoform	ND		1070	1120		ug/Kg	☼	104	55 - 135
trans-1,3-Dichloropropene	ND		1070	1180		ug/Kg	☼	111	65 - 125
Isopropylbenzene	ND		1070	1120		ug/Kg	☼	105	75 - 130
1,1,2,2-Tetrachloroethane	ND		1070	1180		ug/Kg	☼	110	55 - 130
Trichloroethene	ND		1070	1110		ug/Kg	☼	104	75 - 125
1,2,3-Trichloropropane	ND		1070	1140		ug/Kg	☼	106	65 - 130
Trichlorofluoromethane	ND		1070	1090		ug/Kg	☼	102	25 - 185
trans-1,4-Dichloro-2-butene	ND		1070	1260		ug/Kg	☼	118	42 - 160
t-Butylbenzene	ND		1070	1120		ug/Kg	☼	105	65 - 130
Vinyl acetate	ND		2670	2860		ug/Kg	☼	107	19 - 144
Vinyl chloride	ND	F1	1070	1320		ug/Kg	☼	123	60 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-53837-1 MS
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 202892

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*71 - 136*
4-Bromofluorobenzene (Surr)	*102*		*70 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
Trifluorotoluene (Surr)	*101*		*65 - 140*
Dibromofluoromethane (Surr)	*101*		*75 - 132*

Lab Sample ID: 580-53837-1 MSD
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 202892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		4270	4410		ug/Kg	☼	103	20 - 160	10	30
Acrolein	ND		6350	5730		ug/Kg	☼	90	10 - 125	2	30
Acrylonitrile	ND		10700	11400		ug/Kg	☼	107	74 - 117	6	30
1,1-Dichloroethane	ND		1070	1110		ug/Kg	☼	104	75 - 125	3	30
2-Butanone	ND		4270	4890		ug/Kg	☼	114	30 - 160	3	30
Bromochloromethane	ND		1070	1150		ug/Kg	☼	108	70 - 125	2	30
Bromomethane	ND		1070	1180		ug/Kg	☼	110	30 - 160	1	30
Carbon disulfide	ND		1070	1140		ug/Kg	☼	106	45 - 160	5	30
1,1,1-Trichloroethane	ND		1070	1170		ug/Kg	☼	109	70 - 135	4	30
Carbon tetrachloride	ND		1070	1150		ug/Kg	☼	107	65 - 135	4	30
Benzene	ND		1070	1110		ug/Kg	☼	104	75 - 125	1	30
1,2-Dichloroethane	ND		1070	1080		ug/Kg	☼	101	70 - 135	2	30
Chloroethane	ND		1070	1150		ug/Kg	☼	107	40 - 155	6	30
Chloroform	ND		1070	1120		ug/Kg	☼	105	70 - 125	4	30
1,2-Dichloropropane	ND		1070	1090		ug/Kg	☼	102	70 - 120	2	30
Chloromethane	ND		1070	1040		ug/Kg	☼	97	50 - 130	7	30
cis-1,2-Dichloroethene	ND		1070	1110		ug/Kg	☼	104	65 - 125	3	30
Bromodichloromethane	ND		1070	1150		ug/Kg	☼	107	70 - 130	2	30
2-Chloroethyl vinyl ether	ND		1070	1110		ug/Kg	☼	104	60 - 150	10	30
cis-1,3-Dichloropropene	ND		1070	1160		ug/Kg	☼	109	70 - 125	2	30
Dibromomethane	ND		1070	1110		ug/Kg	☼	104	75 - 130	4	30
4-Methyl-2-pentanone	ND		4270	4380		ug/Kg	☼	102	45 - 145	5	30
Dichlorodifluoromethane	ND		1070	1030		ug/Kg	☼	96	35 - 135	7	30
Iodomethane	ND		1070	1190		ug/Kg	☼	111	44 - 148	5	30
1,1,2-Trichloroethane	ND		1070	1150		ug/Kg	☼	108	60 - 125	1	30
Methyl tert-butyl ether	ND		1070	1120		ug/Kg	☼	104	59 - 137	0	30
2-Hexanone	ND		4270	4160		ug/Kg	☼	97	45 - 145	15	30
Methylene Chloride	ND		1070	1090		ug/Kg	☼	101	55 - 140	3	30
Chlorodibromomethane	ND		1070	1210		ug/Kg	☼	113	65 - 130	0	30
1,2-Dibromoethane	ND		1070	1150		ug/Kg	☼	108	70 - 125	4	30
Chlorobenzene	ND		1070	1160		ug/Kg	☼	108	75 - 125	2	30
1,1,1,2-Tetrachloroethane	ND		1070	1210		ug/Kg	☼	113	75 - 125	9	30
Ethylbenzene	ND		1070	1160		ug/Kg	☼	108	75 - 125	3	30
Tetrachloroethene	ND		1070	1150		ug/Kg	☼	108	65 - 140	4	30
m-Xylene & p-Xylene	ND		1070	1150		ug/Kg	☼	107	80 - 125	3	30
Toluene	ND		1070	1150		ug/Kg	☼	107	70 - 125	4	30
o-Xylene	ND		1070	1160		ug/Kg	☼	108	75 - 125	4	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-53837-1 MSD
Matrix: Solid
Analysis Batch: 202865

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 202892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Styrene	ND		1070	1170		ug/Kg	☼	110	75 - 125	1	30
trans-1,2-Dichloroethene	ND		1070	1110		ug/Kg	☼	103	65 - 135	3	30
Bromoform	ND		1070	1060		ug/Kg	☼	99	55 - 135	5	30
trans-1,3-Dichloropropene	ND		1070	1160		ug/Kg	☼	109	65 - 125	2	30
Isopropylbenzene	ND		1070	1180		ug/Kg	☼	110	75 - 130	5	30
1,1,2,2-Tetrachloroethane	ND		1070	1140		ug/Kg	☼	107	55 - 130	3	30
Trichloroethene	ND		1070	1120		ug/Kg	☼	105	75 - 125	1	30
1,2,3-Trichloropropane	ND		1070	1140		ug/Kg	☼	107	65 - 130	1	30
Trichlorofluoromethane	ND		1070	1130		ug/Kg	☼	106	25 - 185	4	30
trans-1,4-Dichloro-2-butene	ND		1070	1180		ug/Kg	☼	110	42 - 160	7	30
t-Butylbenzene	ND		1070	1240		ug/Kg	☼	116	65 - 130	10	30
Vinyl acetate	ND		2670	2790		ug/Kg	☼	104	19 - 144	2	30
Vinyl chloride	ND	F1	1070	1390	F1	ug/Kg	☼	130	60 - 125	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 136*
4-Bromofluorobenzene (Surr)	*97*		*70 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*65 - 140*
Dibromofluoromethane (Surr)	*100*		*75 - 132*

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	170	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acrolein	ND		1200	91	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acrylonitrile	ND		400	96	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Butanone	ND		400	52	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromomethane	ND		140	13	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Carbon disulfide	ND		40	4.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Benzene	ND		16	3.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloroethane	ND		400	16	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloroform	ND		40	4.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloromethane	ND		100	10	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Dibromomethane	ND		60	13	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/12/15 10:34	10/12/15 12:37	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Iodomethane	ND		200	6.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Hexanone	ND		200	36	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Ethylbenzene	ND		40	2.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Tetrachloroethene	ND		20	5.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Toluene	ND		40	2.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
o-Xylene	ND		40	3.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Styrene	ND		40	2.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromoform	ND		40	6.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Isopropylbenzene	ND		40	2.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Trichloroethene	ND		24	3.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
t-Butylbenzene	ND		40	3.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Vinyl acetate	ND		200	46	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Vinyl chloride	ND		16	7.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 136*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 120*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 132*	*10/12/15 10:34*	*10/12/15 12:37*	*1*

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3200	3760		ug/Kg		118	20 - 160
Acrolein	4750	4470		ug/Kg		94	10 - 125
Acrylonitrile	8010	8270		ug/Kg		103	74 - 117
1,1-Dichloroethane	800	724		ug/Kg		91	70 - 128
2-Butanone	3200	3530		ug/Kg		110	30 - 160
Bromochloromethane	802	712		ug/Kg		89	78 - 123
Bromomethane	801	563		ug/Kg		70	57 - 148
Carbon disulfide	804	725		ug/Kg		90	45 - 160

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	803	693		ug/Kg		86	63 - 135
Carbon tetrachloride	802	663		ug/Kg		83	59 - 145
Benzene	803	741		ug/Kg		92	70 - 128
1,2-Dichloroethane	801	699		ug/Kg		87	71 - 128
Chloroethane	802	591		ug/Kg		74	48 - 167
Chloroform	800	720		ug/Kg		90	78 - 125
1,2-Dichloropropane	801	724		ug/Kg		90	76 - 161
Chloromethane	803	687		ug/Kg		86	55 - 136
cis-1,2-Dichloroethene	801	695		ug/Kg		87	70 - 130
Bromodichloromethane	803	676		ug/Kg		84	58 - 133
2-Chloroethyl vinyl ether	800	841		ug/Kg		105	60 - 150
cis-1,3-Dichloropropene	802	762		ug/Kg		95	69 - 129
Dibromomethane	803	762		ug/Kg		95	78 - 126
4-Methyl-2-pentanone	3200	3720		ug/Kg		116	45 - 145
Dichlorodifluoromethane	802	617		ug/Kg		77	38 - 150
Iodomethane	803	716		ug/Kg		89	44 - 148
1,1,2-Trichloroethane	802	793		ug/Kg		99	77 - 124
Methyl tert-butyl ether	801	712		ug/Kg		89	65 - 125
2-Hexanone	3200	3740		ug/Kg		117	45 - 145
Chlorodibromomethane	801	758		ug/Kg		95	42 - 129
1,2-Dibromoethane	801	774		ug/Kg		97	69 - 126
Chlorobenzene	803	761		ug/Kg		95	75 - 120
1,1,1,2-Tetrachloroethane	803	709		ug/Kg		88	72 - 123
Ethylbenzene	803	773		ug/Kg		96	78 - 126
Tetrachloroethene	802	750		ug/Kg		94	56 - 155
m-Xylene & p-Xylene	802	796		ug/Kg		99	78 - 126
Toluene	801	783		ug/Kg		98	75 - 126
o-Xylene	801	777		ug/Kg		97	77 - 127
Styrene	801	782		ug/Kg		98	79 - 127
trans-1,2-Dichloroethene	802	667		ug/Kg		83	76 - 131
Bromoform	802	728		ug/Kg		91	50 - 124
trans-1,3-Dichloropropene	801	752		ug/Kg		94	72 - 129
Isopropylbenzene	801	784		ug/Kg		98	79 - 127
1,1,2,2-Tetrachloroethane	801	827		ug/Kg		103	73 - 125
Trichloroethene	802	714		ug/Kg		89	83 - 124
1,2,3-Trichloropropane	801	838		ug/Kg		105	77 - 123
Trichlorofluoromethane	801	702		ug/Kg		88	47 - 165
trans-1,4-Dichloro-2-butene	800	826		ug/Kg		103	42 - 160
t-Butylbenzene	800	814		ug/Kg		102	71 - 136
Vinyl acetate	2000	2080		ug/Kg		104	19 - 144
Vinyl chloride	805	572		ug/Kg		71	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 136*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*65 - 140*
Dibromofluoromethane (Surr)	*96*		*75 - 132*

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3200	2890		ug/Kg		90	20 - 160	26	30
Acrolein	4750	3790		ug/Kg		80	10 - 125	16	30
Acrylonitrile	8010	7080		ug/Kg		88	74 - 117	16	30
1,1-Dichloroethane	800	708		ug/Kg		88	70 - 128	2	21
2-Butanone	3200	2960		ug/Kg		93	30 - 160	18	30
Bromochloromethane	802	694		ug/Kg		87	78 - 123	3	19
Bromomethane	801	601		ug/Kg		75	57 - 148	6	29
Carbon disulfide	804	709		ug/Kg		88	45 - 160	2	30
1,1,1-Trichloroethane	803	677		ug/Kg		84	63 - 135	2	20
Carbon tetrachloride	802	681		ug/Kg		85	59 - 145	3	19
Benzene	803	744		ug/Kg		93	70 - 128	0	19
1,2-Dichloroethane	801	688		ug/Kg		86	71 - 128	2	18
Chloroethane	802	650		ug/Kg		81	48 - 167	9	53
Chloroform	800	709		ug/Kg		89	78 - 125	2	17
1,2-Dichloropropane	801	702		ug/Kg		88	76 - 161	3	15
Chloromethane	803	695		ug/Kg		87	55 - 136	1	26
cis-1,2-Dichloroethene	801	671		ug/Kg		84	70 - 130	4	19
Bromodichloromethane	803	672		ug/Kg		84	58 - 133	1	19
2-Chloroethyl vinyl ether	800	783		ug/Kg		98	60 - 150	7	30
cis-1,3-Dichloropropene	802	755		ug/Kg		94	69 - 129	1	19
Dibromomethane	803	731		ug/Kg		91	78 - 126	4	18
4-Methyl-2-pentanone	3200	3200		ug/Kg		100	45 - 145	15	30
Dichlorodifluoromethane	802	593		ug/Kg		74	38 - 150	4	26
Iodomethane	803	690		ug/Kg		86	44 - 148	4	30
1,1,2-Trichloroethane	802	769		ug/Kg		96	77 - 124	3	18
Methyl tert-butyl ether	801	687		ug/Kg		86	65 - 125	4	30
2-Hexanone	3200	3160		ug/Kg		99	45 - 145	17	30
Chlorodibromomethane	801	756		ug/Kg		94	42 - 129	0	23
1,2-Dibromoethane	801	746		ug/Kg		93	69 - 126	4	21
Chlorobenzene	803	747		ug/Kg		93	75 - 120	2	21
1,1,1,2-Tetrachloroethane	803	731		ug/Kg		91	72 - 123	3	20
Ethylbenzene	803	755		ug/Kg		94	78 - 126	2	23
Tetrachloroethene	802	747		ug/Kg		93	56 - 155	0	27
m-Xylene & p-Xylene	802	782		ug/Kg		98	78 - 126	2	23
Toluene	801	774		ug/Kg		97	75 - 126	1	19
o-Xylene	801	779		ug/Kg		97	77 - 127	0	22
Styrene	801	780		ug/Kg		97	79 - 127	0	21
trans-1,2-Dichloroethene	802	681		ug/Kg		85	76 - 131	2	18
Bromoform	802	716		ug/Kg		89	50 - 124	2	25
trans-1,3-Dichloropropene	801	736		ug/Kg		92	72 - 129	2	20
Isopropylbenzene	801	796		ug/Kg		99	79 - 127	1	20
1,1,2,2-Tetrachloroethane	801	743		ug/Kg		93	73 - 125	11	22
Trichloroethene	802	709		ug/Kg		89	83 - 124	1	17
1,2,3-Trichloropropane	801	735		ug/Kg		92	77 - 123	13	23
Trichlorofluoromethane	801	685		ug/Kg		86	47 - 165	2	54
trans-1,4-Dichloro-2-butene	800	763		ug/Kg		95	42 - 160	8	30
t-Butylbenzene	800	818		ug/Kg		102	71 - 136	1	27
Vinyl acetate	2000	1790		ug/Kg		89	19 - 144	15	30
Vinyl chloride	805	592		ug/Kg		74	67 - 131	3	22

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 136*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*102*		*65 - 140*
Dibromofluoromethane (Surr)	*96*		*75 - 132*

Lab Sample ID: MB 580-203469/1-A
Matrix: Solid
Analysis Batch: 203451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203469

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	170	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Acrolein	ND		1200	91	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Acrylonitrile	ND		400	96	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
2-Butanone	ND		400	52	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Bromomethane	ND		140	13	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Carbon disulfide	6.51	J	40	4.4	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Benzene	3.91	J	16	3.5	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Chloroethane	ND		400	16	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Chloroform	ND		40	4.2	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Chloromethane	ND		100	10	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Dibromomethane	ND		60	13	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Iodomethane	ND		200	6.3	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
2-Hexanone	ND		200	36	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Methylene Chloride	36.7		25	12	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Ethylbenzene	8.09	J	40	2.0	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Tetrachloroethene	10.4	J	20	5.3	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Toluene	6.36	J	40	2.6	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
o-Xylene	5.03	J	40	3.0	ug/Kg		10/15/15 12:26	10/15/15 14:05	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-203469/1-A
Matrix: Solid
Analysis Batch: 203451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203469

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	5.04	J	40	2.4	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Bromoform	ND		40	6.5	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Isopropylbenzene	7.24	J	40	2.6	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Trichloroethene	ND		24	3.1	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
t-Butylbenzene	11.2	J	40	3.1	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Vinyl acetate	ND		200	46	ug/Kg		10/15/15 12:26	10/15/15 14:05	1
Vinyl chloride	ND		16	7.1	ug/Kg		10/15/15 12:26	10/15/15 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*	*10/15/15 12:26*	*10/15/15 14:05*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*10/15/15 12:26*	*10/15/15 14:05*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*10/15/15 12:26*	*10/15/15 14:05*	*1*
Trifluorotoluene (Surr)	*94*		*65 - 140*	*10/15/15 12:26*	*10/15/15 14:05*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 132*	*10/15/15 12:26*	*10/15/15 14:05*	*1*

Lab Sample ID: LCS 580-203469/2-A
Matrix: Solid
Analysis Batch: 203451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203469

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3200	3330		ug/Kg		104	20 - 160
Acrolein	4750	4470		ug/Kg		94	10 - 125
Acrylonitrile	8010	8070		ug/Kg		101	74 - 117
1,1-Dichloroethane	800	702		ug/Kg		88	70 - 128
2-Butanone	3200	3550		ug/Kg		111	30 - 160
Bromochloromethane	802	669		ug/Kg		83	78 - 123
Bromomethane	801	534		ug/Kg		67	57 - 148
Carbon disulfide	804	695		ug/Kg		86	45 - 160
1,1,1-Trichloroethane	803	681		ug/Kg		85	63 - 135
Carbon tetrachloride	802	696		ug/Kg		87	59 - 145
Benzene	803	706		ug/Kg		88	70 - 128
1,2-Dichloroethane	801	657		ug/Kg		82	71 - 128
Chloroethane	802	591		ug/Kg		74	48 - 167
Chloroform	800	678		ug/Kg		85	78 - 125
1,2-Dichloropropane	801	707		ug/Kg		88	76 - 161
Chloromethane	803	608		ug/Kg		76	55 - 136
cis-1,2-Dichloroethene	801	702		ug/Kg		88	70 - 130
Bromodichloromethane	803	677		ug/Kg		84	58 - 133
2-Chloroethyl vinyl ether	800	735		ug/Kg		92	60 - 150
cis-1,3-Dichloropropene	802	740		ug/Kg		92	69 - 129
Dibromomethane	803	735		ug/Kg		92	78 - 126
4-Methyl-2-pentanone	3200	3440		ug/Kg		108	45 - 145

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-203469/2-A
Matrix: Solid
Analysis Batch: 203451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203469

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	802	505		ug/Kg		63	38 - 150
Iodomethane	803	697		ug/Kg		87	44 - 148
1,1,2-Trichloroethane	802	691		ug/Kg		86	77 - 124
Methyl tert-butyl ether	801	705		ug/Kg		88	65 - 125
2-Hexanone	3200	3550		ug/Kg		111	45 - 145
Methylene Chloride	804	689		ug/Kg		86	57 - 146
Chlorodibromomethane	801	719		ug/Kg		90	42 - 129
1,2-Dibromoethane	801	689		ug/Kg		86	69 - 126
Chlorobenzene	803	722		ug/Kg		90	75 - 120
1,1,1,2-Tetrachloroethane	803	699		ug/Kg		87	72 - 123
Ethylbenzene	803	735		ug/Kg		92	78 - 126
Tetrachloroethene	802	743		ug/Kg		93	56 - 155
m-Xylene & p-Xylene	802	728		ug/Kg		91	78 - 126
Toluene	801	708		ug/Kg		88	75 - 126
o-Xylene	801	719		ug/Kg		90	77 - 127
Styrene	801	767		ug/Kg		96	79 - 127
trans-1,2-Dichloroethene	802	663		ug/Kg		83	76 - 131
Bromoform	802	712		ug/Kg		89	50 - 124
trans-1,3-Dichloropropene	801	734		ug/Kg		92	72 - 129
Isopropylbenzene	801	747		ug/Kg		93	79 - 127
1,1,2,2-Tetrachloroethane	801	764		ug/Kg		95	73 - 125
Trichloroethene	802	701		ug/Kg		87	83 - 124
1,2,3-Trichloropropane	801	766		ug/Kg		96	77 - 123
Trichlorofluoromethane	801	603		ug/Kg		75	47 - 165
trans-1,4-Dichloro-2-butene	800	749		ug/Kg		94	42 - 160
t-Butylbenzene	800	732		ug/Kg		92	71 - 136
Vinyl acetate	2000	2050		ug/Kg		102	19 - 144
Vinyl chloride	805	553		ug/Kg		69	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*65 - 140*
Dibromofluoromethane (Surr)	*97*		*75 - 132*

Lab Sample ID: LCSD 580-203469/3-A
Matrix: Solid
Analysis Batch: 203451

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203469

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3200	2960		ug/Kg		92	20 - 160	12	30
Acrolein	4750	3970		ug/Kg		84	10 - 125	12	30
Acrylonitrile	8010	7430		ug/Kg		93	74 - 117	8	30
1,1-Dichloroethane	800	691		ug/Kg		86	70 - 128	2	21
2-Butanone	3200	3050		ug/Kg		95	30 - 160	15	30
Bromochloromethane	802	668		ug/Kg		83	78 - 123	0	19
Bromomethane	801	562		ug/Kg		70	57 - 148	5	29

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-203469/3-A
Matrix: Solid
Analysis Batch: 203451

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203469

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide			804	725		ug/Kg		90	45 - 160	4	30
1,1,1-Trichloroethane			803	681		ug/Kg		85	63 - 135	0	20
Carbon tetrachloride			802	724		ug/Kg		90	59 - 145	4	19
Benzene			803	711		ug/Kg		89	70 - 128	1	19
1,2-Dichloroethane			801	645		ug/Kg		81	71 - 128	2	18
Chloroethane			802	625		ug/Kg		78	48 - 167	6	53
Chloroform			800	674		ug/Kg		84	78 - 125	1	17
1,2-Dichloropropane			801	708		ug/Kg		88	76 - 161	0	15
Chloromethane			803	628		ug/Kg		78	55 - 136	3	26
cis-1,2-Dichloroethene			801	699		ug/Kg		87	70 - 130	0	19
Bromodichloromethane			803	669		ug/Kg		83	58 - 133	1	19
2-Chloroethyl vinyl ether			800	715		ug/Kg		89	60 - 150	3	30
cis-1,3-Dichloropropene			802	736		ug/Kg		92	69 - 129	0	19
Dibromomethane			803	694		ug/Kg		86	78 - 126	6	18
4-Methyl-2-pentanone			3200	3240		ug/Kg		101	45 - 145	6	30
Dichlorodifluoromethane			802	534		ug/Kg		67	38 - 150	5	26
Iodomethane			803	701		ug/Kg		87	44 - 148	1	30
1,1,2-Trichloroethane			802	682		ug/Kg		85	77 - 124	1	18
Methyl tert-butyl ether			801	695		ug/Kg		87	65 - 125	1	30
2-Hexanone			3200	3340		ug/Kg		104	45 - 145	6	30
Methylene Chloride			804	684		ug/Kg		85	57 - 146	1	21
Chlorodibromomethane			801	726		ug/Kg		91	42 - 129	1	23
1,2-Dibromoethane			801	697		ug/Kg		87	69 - 126	1	21
Chlorobenzene			803	722		ug/Kg		90	75 - 120	0	21
1,1,1,2-Tetrachloroethane			803	725		ug/Kg		90	72 - 123	4	20
Ethylbenzene			803	746		ug/Kg		93	78 - 126	1	23
Tetrachloroethene			802	775		ug/Kg		97	56 - 155	4	27
m-Xylene & p-Xylene			802	741		ug/Kg		92	78 - 126	2	23
Toluene			801	729		ug/Kg		91	75 - 126	3	19
o-Xylene			801	736		ug/Kg		92	77 - 127	2	22
Styrene			801	774		ug/Kg		97	79 - 127	1	21
trans-1,2-Dichloroethene			802	644		ug/Kg		80	76 - 131	3	18
Bromoform			802	721		ug/Kg		90	50 - 124	1	25
trans-1,3-Dichloropropene			801	725		ug/Kg		91	72 - 129	1	20
Isopropylbenzene			801	765		ug/Kg		96	79 - 127	2	20
1,1,2,2-Tetrachloroethane			801	749		ug/Kg		93	73 - 125	2	22
Trichloroethene			802	743		ug/Kg		93	83 - 124	6	17
1,2,3-Trichloropropane			801	749		ug/Kg		94	77 - 123	2	23
Trichlorofluoromethane			801	644		ug/Kg		80	47 - 165	7	54
trans-1,4-Dichloro-2-butene			800	712		ug/Kg		89	42 - 160	5	30
t-Butylbenzene			800	763		ug/Kg		95	71 - 136	4	27
Vinyl acetate			2000	1590		ug/Kg		79	19 - 144	26	30
Vinyl chloride			805	568		ug/Kg		71	67 - 131	3	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 136*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-203469/3-A
Matrix: Solid
Analysis Batch: 203451

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203469

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluorotoluene (Surr)	*100*		*65 - 140*
Dibromofluoromethane (Surr)	*95*		*75 - 132*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride - RA	22.8	J	25	12	ug/Kg		10/12/15 10:34	10/22/15 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr) - RA	*95*		*71 - 136*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
4-Bromofluorobenzene (Surr) - RA	*100*		*70 - 120*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Toluene-d8 (Surr) - RA	*103*		*80 - 120*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Trifluorotoluene (Surr) - RA	*96*		*65 - 140*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Dibromofluoromethane (Surr) - RA	*97*		*75 - 132*	*10/12/15 10:34*	*10/22/15 11:09*	*1*

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride - RA			804	799		ug/Kg		99	57 - 146		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - RA	*97*		*71 - 136*
4-Bromofluorobenzene (Surr) - RA	*100*		*70 - 120*
Toluene-d8 (Surr) - RA	*100*		*80 - 120*
Trifluorotoluene (Surr) - RA	*98*		*65 - 140*
Dibromofluoromethane (Surr) - RA	*100*		*75 - 132*

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride - RA			804	789		ug/Kg		98	57 - 146	1	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - RA	*98*		*71 - 136*
4-Bromofluorobenzene (Surr) - RA	*101*		*70 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr) - RA	*101*		*80 - 120*
Trifluorotoluene (Surr) - RA	*99*		*65 - 140*
Dibromofluoromethane (Surr) - RA	*99*		*75 - 132*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-202635/1-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Diethyl phthalate	19.9	J	20	1.5	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Fluorene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Anthracene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Pyrene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Butyl benzyl phthalate	9.80	J	20	5.0	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Chrysene	ND		2.5	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Bis(2-ethylhexyl) phthalate	34.0	J	60	5.0	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*96*		*42 - 151*	*10/07/15 10:28*	*10/20/15 23:02*	*1*

Lab Sample ID: LCS 580-202635/2-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	100	69.0		ug/Kg		69	62 - 112
2-Methylnaphthalene	100	75.1		ug/Kg		75	64 - 119
Dimethyl phthalate	100	82.2		ug/Kg		82	78 - 117
Acenaphthylene	100	77.0		ug/Kg		77	68 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-202635/2-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202635

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			100	71.6		ug/Kg		72	68 - 116		
Diethyl phthalate			100	92.6		ug/Kg		93	73 - 116		
Fluorene			100	78.6		ug/Kg		79	70 - 121		
Phenanthrene			100	75.2		ug/Kg		75	73 - 106		
Anthracene			100	87.0		ug/Kg		87	73 - 116		
Di-n-butyl phthalate			100	107		ug/Kg		107	66 - 140		
Fluoranthene			100	90.5		ug/Kg		91	73 - 125		
Pyrene			100	85.5		ug/Kg		86	70 - 120		
Butyl benzyl phthalate			100	108		ug/Kg		108	69 - 142		
Benzo[a]anthracene			100	87.3		ug/Kg		87	76 - 119		
Chrysene			100	83.4		ug/Kg		83	75 - 114		
Bis(2-ethylhexyl) phthalate			100	126		ug/Kg		126	62 - 144		
Di-n-octyl phthalate			100	107		ug/Kg		107	65 - 141		
Benzo[b]fluoranthene			100	90.3		ug/Kg		90	63 - 132		
Benzo[k]fluoranthene			100	89.9		ug/Kg		90	63 - 119		
Benzo[a]pyrene			100	86.1		ug/Kg		86	72 - 117		
Indeno[1,2,3-cd]pyrene			100	84.6		ug/Kg		85	56 - 127		
Dibenz(a,h)anthracene			100	84.2		ug/Kg		84	56 - 134		
Benzo[g,h,i]perylene			100	92.1		ug/Kg		92	55 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*93*		*42 - 151*

Lab Sample ID: LCSD 580-202635/3-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202635

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			100	70.6		ug/Kg		71	62 - 112	2	26
2-Methylnaphthalene			100	78.1		ug/Kg		78	64 - 119	4	27
Dimethyl phthalate			100	83.7		ug/Kg		84	78 - 117	2	30
Acenaphthylene			100	78.5		ug/Kg		78	68 - 120	2	28
Acenaphthene			100	73.0		ug/Kg		73	68 - 116	2	27
Diethyl phthalate			100	98.7		ug/Kg		99	73 - 116	6	26
Fluorene			100	80.8		ug/Kg		81	70 - 121	3	30
Phenanthrene			100	74.9		ug/Kg		75	73 - 106	0	28
Anthracene			100	85.6		ug/Kg		86	73 - 116	2	27
Di-n-butyl phthalate			100	109		ug/Kg		109	66 - 140	2	30
Fluoranthene			100	93.5		ug/Kg		94	73 - 125	3	30
Pyrene			100	87.1		ug/Kg		87	70 - 120	2	30
Butyl benzyl phthalate			100	118		ug/Kg		118	69 - 142	9	30
Benzo[a]anthracene			100	88.8		ug/Kg		89	76 - 119	2	27
Chrysene			100	82.0		ug/Kg		82	75 - 114	2	26
Bis(2-ethylhexyl) phthalate			100	127		ug/Kg		127	62 - 144	0	30
Di-n-octyl phthalate			100	111		ug/Kg		111	65 - 141	4	30
Benzo[b]fluoranthene			100	87.2		ug/Kg		87	63 - 132	4	30
Benzo[k]fluoranthene			100	98.6		ug/Kg		99	63 - 119	9	30
Benzo[a]pyrene			100	85.0		ug/Kg		85	72 - 117	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-202635/3-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202635

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene			100	88.2		ug/Kg		88	56 - 127	4	29
Dibenz(a,h)anthracene			100	91.3		ug/Kg		91	56 - 134	8	30
Benzo[g,h,i]perylene			100	95.2		ug/Kg		95	55 - 139	3	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*94*		*42 - 151*

Lab Sample ID: MB 580-202944/1-A
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Diethyl phthalate	16.6	J	20	1.5	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Fluorene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Anthracene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Di-n-butyl phthalate	5.30	J	50	5.0	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Pyrene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Butyl benzyl phthalate	5.90	J	20	5.0	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Chrysene	ND		2.5	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Bis(2-ethylhexyl) phthalate	33.7	J	60	5.0	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/09/15 18:44	10/16/15 20:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*116*		*42 - 151*	*10/09/15 18:44*	*10/16/15 20:23*	*1*

Lab Sample ID: LCS 580-202944/2-A
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202944

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene			100	77.6		ug/Kg		78	62 - 112
2-Methylnaphthalene			100	84.8		ug/Kg		85	64 - 119
Dimethyl phthalate			100	92.0		ug/Kg		92	78 - 117
Acenaphthylene			100	84.4		ug/Kg		84	68 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-202944/2-A
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202944

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			100	80.5		ug/Kg		80	68 - 116		
Diethyl phthalate			100	104		ug/Kg		104	73 - 116		
Fluorene			100	90.2		ug/Kg		90	70 - 121		
Phenanthrene			100	83.8		ug/Kg		84	73 - 106		
Anthracene			100	97.5		ug/Kg		97	73 - 116		
Di-n-butyl phthalate			100	115		ug/Kg		115	66 - 140		
Fluoranthene			100	109		ug/Kg		109	73 - 125		
Pyrene			100	101		ug/Kg		101	70 - 120		
Butyl benzyl phthalate			100	102		ug/Kg		102	69 - 142		
Benzo[a]anthracene			100	92.5		ug/Kg		93	76 - 119		
Chrysene			100	86.3		ug/Kg		86	75 - 114		
Bis(2-ethylhexyl) phthalate			100	111		ug/Kg		111	62 - 144		
Di-n-octyl phthalate			100	99.2		ug/Kg		99	65 - 141		
Benzo[b]fluoranthene			100	95.1		ug/Kg		95	63 - 132		
Benzo[k]fluoranthene			100	104		ug/Kg		104	63 - 119		
Benzo[a]pyrene			100	94.7		ug/Kg		95	72 - 117		
Indeno[1,2,3-cd]pyrene			100	88.9		ug/Kg		89	56 - 127		
Dibenz(a,h)anthracene			100	102		ug/Kg		102	56 - 134		
Benzo[g,h,i]perylene			100	99.5		ug/Kg		100	55 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*117*		*42 - 151*

Lab Sample ID: LCSD 580-202944/3-A
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202944

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			100	81.9		ug/Kg		82	62 - 112	5	26
2-Methylnaphthalene			100	90.0		ug/Kg		90	64 - 119	6	27
Dimethyl phthalate			100	97.2		ug/Kg		97	78 - 117	6	30
Acenaphthylene			100	86.2		ug/Kg		86	68 - 120	2	28
Acenaphthene			100	81.1		ug/Kg		81	68 - 116	1	27
Diethyl phthalate			100	103		ug/Kg		103	73 - 116	1	26
Fluorene			100	91.0		ug/Kg		91	70 - 121	1	30
Phenanthrene			100	86.0		ug/Kg		86	73 - 106	2	28
Anthracene			100	103		ug/Kg		103	73 - 116	5	27
Di-n-butyl phthalate			100	118		ug/Kg		118	66 - 140	3	30
Fluoranthene			100	110		ug/Kg		110	73 - 125	1	30
Pyrene			100	104		ug/Kg		104	70 - 120	2	30
Butyl benzyl phthalate			100	101		ug/Kg		101	69 - 142	1	30
Benzo[a]anthracene			100	95.1		ug/Kg		95	76 - 119	3	27
Chrysene			100	88.4		ug/Kg		88	75 - 114	2	26
Bis(2-ethylhexyl) phthalate			100	111		ug/Kg		111	62 - 144	0	30
Di-n-octyl phthalate			100	102		ug/Kg		102	65 - 141	3	30
Benzo[b]fluoranthene			100	97.8		ug/Kg		98	63 - 132	3	30
Benzo[k]fluoranthene			100	106		ug/Kg		106	63 - 119	3	30
Benzo[a]pyrene			100	97.6		ug/Kg		98	72 - 117	3	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-202944/3-A
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202944

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene			100	92.2		ug/Kg		92	56 - 127	4	29
Dibenz(a,h)anthracene			100	108		ug/Kg		108	56 - 134	6	30
Benzo[g,h,i]perylene			100	103		ug/Kg		103	55 - 139	3	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*117*		*42 - 151*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-202807/1-A
Matrix: Solid
Analysis Batch: 202828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202807

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.50	mg/Kg		10/08/15 14:09	10/08/15 15:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*	*10/08/15 14:09*	*10/08/15 15:41*	*1*

Lab Sample ID: LCS 580-202807/2-A
Matrix: Solid
Analysis Batch: 202828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202807

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline			40.0	36.1		mg/Kg		90	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*

Lab Sample ID: LCSD 580-202807/3-A
Matrix: Solid
Analysis Batch: 202828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202807

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	37.6		mg/Kg		94	68 - 120	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*

Lab Sample ID: MB 580-203085/1-A
Matrix: Solid
Analysis Batch: 203132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.50	mg/Kg		10/12/15 12:34	10/12/15 18:21	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-203085/1-A
Matrix: Solid
Analysis Batch: 203132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203085

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150	10/12/15 12:34	10/12/15 18:21	1

Lab Sample ID: LCS 580-203085/2-A
Matrix: Solid
Analysis Batch: 203132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203085

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			40.0	34.3		mg/Kg		86	68 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		50 - 150

Lab Sample ID: LCSD 580-203085/3-A
Matrix: Solid
Analysis Batch: 203132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203085

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	35.8		mg/Kg		90	68 - 120	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		50 - 150

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 580-202634/1-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.20	0.030	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
2,4'-DDE	ND		0.20	0.030	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
2,4'-DDT	ND		0.20	0.016	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
4,4'-DDD	0.0711	J	0.20	0.0074	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
4,4'-DDT	0.0589	J	0.20	0.015	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Aldrin	ND		0.10	0.012	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
alpha-BHC	0.0937	J	0.10	0.028	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
beta-BHC	0.172		0.10	0.011	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Chlordane (technical)	0.174	J	1.0	0.14	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
cis-Nonachlor	0.0292	J	0.20	0.019	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
delta-BHC	0.125		0.10	0.015	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Dieldrin	0.0256	J	0.20	0.012	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endosulfan II	ND		0.20	0.011	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endosulfan sulfate	0.00577	J	0.20	0.0046	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endrin	0.0505	J	0.20	0.0094	ug/Kg		10/07/15 10:18	11/13/15 19:31	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-202634/1-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	0.0434	J	0.20	0.020	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endrin ketone	0.196	J	0.20	0.012	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
gamma-BHC (Lindane)	0.0165	J	0.10	0.0071	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Heptachlor	0.0472	J	0.20	0.015	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Heptachlor epoxide	ND		0.10	0.0039	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Methoxychlor	0.0871	J	1.0	0.013	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
oxy-Chlordane	0.193	J	0.20	0.030	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Toxaphene	8.70	J	10	0.78	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
trans-Nonachlor	0.553		0.20	0.030	ug/Kg		10/07/15 10:18	11/13/15 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*141*	*X*	*60 - 128*	*10/07/15 10:18*	*11/13/15 19:31*	*1*
Tetrachloro-m-xylene	*83*		*35 - 129*	*10/07/15 10:18*	*11/13/15 19:31*	*1*

Lab Sample ID: LCS 580-202634/4-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	2.50	3.03		ug/Kg		121	48 - 136
4,4'-DDE	2.50	2.87		ug/Kg		115	50 - 138
4,4'-DDT	2.50	3.17		ug/Kg		127	53 - 132
Aldrin	2.50	2.81		ug/Kg		113	59 - 127
alpha-BHC	2.50	2.50		ug/Kg		100	48 - 132
alpha-Chlordane	2.50	3.05		ug/Kg		122	52 - 137
beta-BHC	2.50	2.96		ug/Kg		118	45 - 122
delta-BHC	2.50	2.92		ug/Kg		117	27 - 124
Dieldrin	2.50	3.14		ug/Kg		126	53 - 145
Endosulfan I	2.50	3.06		ug/Kg		122	57 - 140
Endosulfan II	2.50	3.05		ug/Kg		122	58 - 144
Endosulfan sulfate	2.50	3.25	*	ug/Kg		130	55 - 125
Endrin	2.50	3.54		ug/Kg		141	51 - 143
Endrin aldehyde	2.50	2.40		ug/Kg		96	45 - 130
Endrin ketone	2.50	3.19		ug/Kg		127	53 - 139
gamma-BHC (Lindane)	2.50	2.87		ug/Kg		115	47 - 127
gamma-Chlordane	2.50	3.21		ug/Kg		128	52 - 137
Heptachlor	2.50	2.97		ug/Kg		119	43 - 141
Heptachlor epoxide	2.50	3.28		ug/Kg		131	47 - 143
Methoxychlor	2.50	3.51	*	ug/Kg		140	56 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*115*		*60 - 128*
Tetrachloro-m-xylene	*95*		*35 - 129*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 580-202634/6-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	25.0	18.2		ug/Kg		73	48 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*125*		*60 - 128*
Tetrachloro-m-xylene	*50*		*35 - 129*

Lab Sample ID: LCS 580-202634/8-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlordane (technical)	12.5	17.5	*	ug/Kg		140	45 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*105*		*60 - 128*
Tetrachloro-m-xylene	*89*		*35 - 129*

Lab Sample ID: LCSD 580-202634/5-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	2.50	3.14		ug/Kg		125	48 - 136	3	18
4,4'-DDE	2.50	3.15		ug/Kg		126	50 - 138	9	17
4,4'-DDT	2.50	3.38	*	ug/Kg		135	53 - 132	6	20
Aldrin	2.50	2.91		ug/Kg		117	59 - 127	3	19
alpha-BHC	2.50	2.64		ug/Kg		105	48 - 132	5	17
alpha-Chlordane	2.50	3.05		ug/Kg		122	52 - 137	0	17
beta-BHC	2.50	2.96		ug/Kg		118	45 - 122	0	18
delta-BHC	2.50	2.93		ug/Kg		117	27 - 124	1	19
Dieldrin	2.50	3.10		ug/Kg		124	53 - 145	1	18
Endosulfan I	2.50	3.03		ug/Kg		121	57 - 140	1	19
Endosulfan II	2.50	3.08		ug/Kg		123	58 - 144	1	19
Endosulfan sulfate	2.50	3.52	*	ug/Kg		141	55 - 125	8	18
Endrin	2.50	3.67	*	ug/Kg		147	51 - 143	4	18
Endrin aldehyde	2.50	2.50		ug/Kg		100	45 - 130	4	21
Endrin ketone	2.50	3.79	*	ug/Kg		152	53 - 139	17	17
gamma-BHC (Lindane)	2.50	2.99		ug/Kg		120	47 - 127	4	17
gamma-Chlordane	2.50	3.25		ug/Kg		130	52 - 137	1	17
Heptachlor	2.50	2.96		ug/Kg		118	43 - 141	0	18
Heptachlor epoxide	2.50	3.33		ug/Kg		133	47 - 143	2	17
Methoxychlor	2.50	3.90	*	ug/Kg		156	56 - 137	11	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*117*		*60 - 128*
Tetrachloro-m-xylene	*76*		*35 - 129*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 580-202634/7-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202634

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene			25.0	32.2	*	ug/Kg		129	48 - 141	56	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*109*		*60 - 128*
Tetrachloro-m-xylene	*75*		*35 - 129*

Lab Sample ID: LCSD 580-202634/9-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202634

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane (technical)			12.5	17.3	*	ug/Kg		139	45 - 131	5	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*111*		*60 - 128*
Tetrachloro-m-xylene	*73*		*35 - 129*

Lab Sample ID: 580-53837-1 MS
Matrix: Solid
Analysis Batch: 206760

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	H F1	3.44	5.43	F1	ug/Kg	☼	158	48 - 136
4,4'-DDE	ND	H F1	3.44	5.16	F1	ug/Kg	☼	150	50 - 138
4,4'-DDT	ND	H F1 *	3.44	5.14	F1	ug/Kg	☼	150	53 - 132
Aldrin	ND	H	3.44	3.78		ug/Kg	☼	110	59 - 127
alpha-BHC	ND	H	3.44	3.96		ug/Kg	☼	115	48 - 132
alpha-Chlordane	ND	H F1	3.44	5.15	F1	ug/Kg	☼	150	52 - 137
beta-BHC	ND	H * F1	3.44	4.68	F1	ug/Kg	☼	136	45 - 122
delta-BHC	0.19	H B * F1	3.44	5.53	F1	ug/Kg	☼	155	27 - 124
Dieldrin	ND	H F1	3.44	5.85	F1	ug/Kg	☼	170	53 - 145
Endosulfan I	ND	H F1	3.44	5.54	F1	ug/Kg	☼	161	57 - 140
Endosulfan II	0.069	J H B F1	3.44	5.73	F1	ug/Kg	☼	165	58 - 144
Endosulfan sulfate	0.33	H B * F1 F2	3.44	4.96	F1	ug/Kg	☼	135	55 - 125
Endrin	ND	H F1 *	3.44	5.89	F1	ug/Kg	☼	171	51 - 143
Endrin aldehyde	1.5	H B	3.44	4.27		ug/Kg	☼	81	45 - 130
Endrin ketone	ND	H F1 *	3.44	6.16	F1	ug/Kg	☼	179	53 - 139
gamma-BHC (Lindane)	0.045	J H B F1 *	3.44	4.51	F1	ug/Kg	☼	130	47 - 127
gamma-Chlordane	ND	H F1	3.44	5.33	F1	ug/Kg	☼	155	52 - 137
Heptachlor	ND	H	3.44	4.21		ug/Kg	☼	123	43 - 141
Heptachlor epoxide	0.020	J H B * F1	3.44	5.46	F1	ug/Kg	☼	158	47 - 143
Methoxychlor	ND	H * F1 F2	3.44	3.97		ug/Kg	☼	116	56 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*191*	*X*	*60 - 128*
Tetrachloro-m-xylene	*124*		*35 - 129*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 580-53837-1 MSD
Matrix: Solid
Analysis Batch: 206760

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	H F1	3.42	6.04	F1	ug/Kg	☼	177	48 - 136	11	18
4,4'-DDE	ND	H F1	3.42	6.00	F1	ug/Kg	☼	175	50 - 138	15	17
4,4'-DDT	ND	H F1 *	3.42	5.86	F1	ug/Kg	☼	171	53 - 132	13	20
Aldrin	ND	H	3.42	3.79		ug/Kg	☼	111	59 - 127	0	19
alpha-BHC	ND	H	3.42	4.02		ug/Kg	☼	118	48 - 132	1	17
alpha-Chlordane	ND	H F1	3.42	5.48	F1	ug/Kg	☼	160	52 - 137	6	17
beta-BHC	ND	H * F1	3.42	5.09	F1	ug/Kg	☼	149	45 - 122	8	18
delta-BHC	0.19	H B * F1	3.42	6.10	F1	ug/Kg	☼	173	27 - 124	10	19
Dieldrin	ND	H F1	3.42	6.39	F1	ug/Kg	☼	187	53 - 145	9	18
Endosulfan I	ND	H F1	3.42	6.18	F1	ug/Kg	☼	181	57 - 140	11	19
Endosulfan II	0.069	J H B F1	3.42	6.56	F1	ug/Kg	☼	190	58 - 144	13	19
Endosulfan sulfate	0.33	H B * F1 F2	3.42	6.20	F1 F2	ug/Kg	☼	171	55 - 125	22	18
Endrin	ND	H F1 *	3.42	6.51	F1	ug/Kg	☼	190	51 - 143	10	18
Endrin aldehyde	1.5	H B	3.42	4.96		ug/Kg	☼	102	45 - 130	15	21
Endrin ketone	ND	H F1 *	3.42	7.03	F1	ug/Kg	☼	205	53 - 139	13	17
gamma-BHC (Lindane)	0.045	J H B F1 *	3.42	4.36		ug/Kg	☼	126	47 - 127	3	17
gamma-Chlordane	ND	H F1	3.42	5.83	F1	ug/Kg	☼	170	52 - 137	9	17
Heptachlor	ND	H	3.42	4.26		ug/Kg	☼	125	43 - 141	1	18
Heptachlor epoxide	0.020	J H B * F1	3.42	5.82	F1	ug/Kg	☼	170	47 - 143	6	17
Methoxychlor	ND	H * F1 F2	3.42	7.02	F1 F2	ug/Kg	☼	205	56 - 137	55	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*177*	*X*	*60 - 128*
Tetrachloro-m-xylene	*130*	*X*	*35 - 129*

Lab Sample ID: MB 580-202920/1-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0757	J	0.20	0.0074	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
4,4'-DDT	ND		0.20	0.015	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Aldrin	ND		0.10	0.012	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
alpha-BHC	ND		0.10	0.028	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
beta-BHC	ND		0.10	0.011	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Chlordane (technical)	ND		1.0	0.14	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
cis-Nonachlor	ND		0.20	0.019	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
delta-BHC	ND		0.10	0.015	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Dieldrin	ND		0.20	0.012	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endosulfan II	ND		0.20	0.011	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endosulfan sulfate	ND		0.20	0.0046	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endrin	ND		0.20	0.0094	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endrin aldehyde	0.0226	J	0.20	0.020	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Endrin ketone	0.103	J	0.20	0.012	ug/Kg		10/09/15 14:01	10/19/15 17:28	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-202920/1-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.00832	J	0.10	0.0071	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Heptachlor	ND		0.20	0.015	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Heptachlor epoxide	ND		0.10	0.0039	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Methoxychlor	ND		1.0	0.013	ug/Kg		10/09/15 14:01	10/19/15 17:28	1
Toxaphene	ND		10	0.78	ug/Kg		10/09/15 14:01	10/19/15 17:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*60 - 128*	*10/09/15 14:01*	*10/19/15 17:28*	*1*
Tetrachloro-m-xylene	*51*		*35 - 129*	*10/09/15 14:01*	*10/19/15 17:28*	*1*

Lab Sample ID: LCS 580-202920/2-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.00	3.65		ug/Kg		73	48 - 136
4,4'-DDE	5.00	3.58		ug/Kg		72	50 - 138
4,4'-DDT	5.00	3.64		ug/Kg		73	53 - 132
Aldrin	5.00	3.07		ug/Kg		61	59 - 127
alpha-BHC	5.00	3.04		ug/Kg		61	48 - 132
alpha-Chlordane	5.00	3.41		ug/Kg		68	52 - 137
beta-BHC	5.00	3.30		ug/Kg		66	45 - 122
delta-BHC	5.00	3.16		ug/Kg		63	27 - 124
Dieldrin	5.00	3.50		ug/Kg		70	53 - 145
Endosulfan I	5.00	3.38		ug/Kg		68	57 - 140
Endosulfan II	5.00	3.32		ug/Kg		66	58 - 144
Endosulfan sulfate	5.00	3.43		ug/Kg		69	55 - 125
Endrin	5.00	3.71		ug/Kg		74	51 - 143
Endrin aldehyde	5.00	2.77		ug/Kg		55	45 - 130
Endrin ketone	5.00	3.63		ug/Kg		73	53 - 139
gamma-BHC (Lindane)	5.00	3.04		ug/Kg		61	47 - 127
gamma-Chlordane	5.00	3.59		ug/Kg		72	52 - 137
Heptachlor	5.00	3.04		ug/Kg		61	43 - 141
Heptachlor epoxide	5.00	3.39		ug/Kg		68	47 - 143
Methoxychlor	5.00	3.54		ug/Kg		71	56 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*60 - 128*
Tetrachloro-m-xylene	*58*		*35 - 129*

Lab Sample ID: LCSD 580-202920/3-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202920

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	5.00	3.47		ug/Kg		69	48 - 136	5	18
4,4'-DDE	5.00	3.37		ug/Kg		67	50 - 138	6	17

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 580-202920/3-A
Matrix: Solid
Analysis Batch: 203709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202920

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDT			5.00	3.38		ug/Kg		68	53 - 132	7	20
Aldrin			5.00	2.93		ug/Kg		59	59 - 127	5	19
alpha-BHC			5.00	2.93		ug/Kg		59	48 - 132	4	17
alpha-Chlordane			5.00	3.17		ug/Kg		63	52 - 137	7	17
beta-BHC			5.00	3.17		ug/Kg		63	45 - 122	4	18
delta-BHC			5.00	2.96		ug/Kg		59	27 - 124	7	19
Dieldrin			5.00	3.21		ug/Kg		64	53 - 145	9	18
Endosulfan I			5.00	3.17		ug/Kg		63	57 - 140	6	19
Endosulfan II			5.00	3.10		ug/Kg		62	58 - 144	7	19
Endosulfan sulfate			5.00	3.20		ug/Kg		64	55 - 125	7	18
Endrin			5.00	3.46		ug/Kg		69	51 - 143	7	18
Endrin aldehyde			5.00	2.60		ug/Kg		52	45 - 130	6	21
Endrin ketone			5.00	3.15		ug/Kg		63	53 - 139	14	17
gamma-BHC (Lindane)			5.00	2.86		ug/Kg		57	47 - 127	6	17
gamma-Chlordane			5.00	3.31		ug/Kg		66	52 - 137	8	17
Heptachlor			5.00	2.97		ug/Kg		59	43 - 141	2	18
Heptachlor epoxide			5.00	3.16		ug/Kg		63	47 - 143	7	17
Methoxychlor			5.00	3.32		ug/Kg		66	56 - 137	7	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*60*		*60 - 128*
Tetrachloro-m-xylene	*55*		*35 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-202634/1-A
Matrix: Solid
Analysis Batch: 205612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.050	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1221	ND		1.1	0.34	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1232	ND		1.1	0.22	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1242	ND		1.0	0.21	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1248	ND		1.1	0.16	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1254	ND		1.0	0.090	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1260	ND		1.0	0.13	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1262	ND		1.0	0.19	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1268	ND		1.0	0.21	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
Polychlorinated biphenyls, Total	ND		1.1	0.34	ug/Kg		10/07/15 10:18	11/14/15 00:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*50 - 140*	*10/07/15 10:18*	*11/14/15 00:00*	*1*
Tetrachloro-m-xylene	*44*	*X*	*45 - 135*	*10/07/15 10:18*	*11/14/15 00:00*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 580-202634/2-A
Matrix: Solid
Analysis Batch: 205612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202634

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			12.5	7.87		ug/Kg		63	40 - 140		
PCB-1260			12.5	10.1		ug/Kg		81	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*97*		*50 - 140*
Tetrachloro-m-xylene	*33*	*X*	*45 - 135*

Lab Sample ID: LCSD 580-202634/3-A
Matrix: Solid
Analysis Batch: 205612

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202634

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			12.5	7.95		ug/Kg		64	40 - 140	1	20
PCB-1260			12.5	8.33		ug/Kg		67	60 - 130	19	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*77*		*50 - 140*
Tetrachloro-m-xylene	*50*		*45 - 135*

Lab Sample ID: 580-53837-1 MS
Matrix: Solid
Analysis Batch: 205612

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND	F2 *	17.2	22.1		ug/Kg	☼	128	40 - 140		
PCB-1260	ND	F1 *	17.2	14.5		ug/Kg	☼	84	60 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*91*		*50 - 140*
Tetrachloro-m-xylene	*45*		*45 - 135*

Lab Sample ID: 580-53837-1 MSD
Matrix: Solid
Analysis Batch: 205612

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F2 *	17.2	12.6	F2	ug/Kg	☼	73	40 - 140	55	20
PCB-1260	ND	F1 *	17.2	14.0		ug/Kg	☼	81	60 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*50 - 140*
Tetrachloro-m-xylene	*48*		*45 - 135*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 580-202920/1-A
Matrix: Solid
Analysis Batch: 203668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.050	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1221	ND		1.1	0.34	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1232	ND		1.1	0.22	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1242	ND		1.0	0.21	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1248	ND		1.1	0.16	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1254	ND		1.0	0.090	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1260	ND		1.0	0.13	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1262	ND		1.0	0.19	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
PCB-1268	ND		1.0	0.21	ug/Kg		10/09/15 14:01	10/18/15 15:13	1
Polychlorinated biphenyls, Total	ND		1.1	0.34	ug/Kg		10/09/15 14:01	10/18/15 15:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*50 - 140*	*10/09/15 14:01*	*10/18/15 15:13*	*1*
Tetrachloro-m-xylene	*51*		*45 - 135*	*10/09/15 14:01*	*10/18/15 15:13*	*1*

Lab Sample ID: LCS 580-202920/4-A
Matrix: Solid
Analysis Batch: 203668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202920

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			100	53.0		ug/Kg		53	40 - 140		
PCB-1260			100	62.2		ug/Kg		62	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*50 - 140*
Tetrachloro-m-xylene	*50*		*45 - 135*

Lab Sample ID: LCSD 580-202920/5-A
Matrix: Solid
Analysis Batch: 203668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202920

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			100	52.3		ug/Kg		52	40 - 140	4	20
PCB-1260			100	63.1		ug/Kg		63	60 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*50 - 140*
Tetrachloro-m-xylene	*53*		*45 - 135*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-202582/1-A
Matrix: Solid
Analysis Batch: 202652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	5.03	J	25	3.6	mg/Kg		10/06/15 14:54	10/07/15 17:02	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-202582/1-A
Matrix: Solid
Analysis Batch: 202652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		10/06/15 14:54	10/07/15 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*10/06/15 14:54*	*10/07/15 17:02*	*1*

Lab Sample ID: LCS 580-202582/2-A
Matrix: Solid
Analysis Batch: 202652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	500	382		mg/Kg		76	70 - 125
Motor Oil (>C24-C36)	502	402		mg/Kg		80	64 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*75*		*50 - 150*

Lab Sample ID: LCSD 580-202582/3-A
Matrix: Solid
Analysis Batch: 202652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	500	382		mg/Kg		76	70 - 125	0	16
Motor Oil (>C24-C36)	502	407		mg/Kg		81	64 - 127	1	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*76*		*50 - 150*

Lab Sample ID: 580-53837-1 DU
Matrix: Solid
Analysis Batch: 202652

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 202582

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
#2 Diesel (C10-C24)	7.8	J B	8.38	J	mg/Kg	☼	8	35
Motor Oil (>C24-C36)	ND		ND		mg/Kg	☼	NC	35

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
o-Terphenyl	*58*		*50 - 150*

Lab Sample ID: MB 580-203017/1-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	3.6	mg/Kg		10/11/15 08:58	10/12/15 17:26	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		10/11/15 08:58	10/12/15 17:26	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-203017/1-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203017

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	10/11/15 08:58	10/12/15 17:26	1

Lab Sample ID: LCS 580-203017/2-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203017

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			500	464		mg/Kg		93	70 - 125		
Motor Oil (>C24-C36)			502	483		mg/Kg		96	64 - 127		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	91		50 - 150

Lab Sample ID: LCSD 580-203017/3-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203017

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			500	477		mg/Kg		95	70 - 125	3	16
Motor Oil (>C24-C36)			502	500		mg/Kg		100	64 - 127	3	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	91		50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-203402/21-A
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		15	15	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Antimony	ND		0.10	0.021	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Arsenic	ND		0.25	0.090	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Barium	ND		0.25	0.039	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Cadmium	ND		0.10	0.0095	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Chromium	ND		0.25	0.032	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Copper	ND		0.20	0.049	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Lead	ND		0.25	0.024	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Magnesium	ND		50	1.3	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Nickel	ND		0.25	0.041	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Silver	ND		0.10	0.0060	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Zinc	ND		2.5	0.56	mg/Kg		10/15/15 08:55	10/15/15 21:16	5

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-203402/22-A
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203402

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	500	540		mg/Kg		108	80 - 120
Antimony	150	149		mg/Kg		99	80 - 120
Arsenic	200	197		mg/Kg		99	80 - 120
Barium	200	206		mg/Kg		103	80 - 120
Cadmium	5.00	4.96		mg/Kg		99	80 - 120
Chromium	20.0	18.4		mg/Kg		92	80 - 120
Copper	25.0	24.2		mg/Kg		97	80 - 120
Lead	50.0	48.2		mg/Kg		96	80 - 120
Magnesium	1000	1060		mg/Kg		106	80 - 120
Nickel	50.0	49.6		mg/Kg		99	80 - 120
Silver	30.0	26.9		mg/Kg		90	80 - 120
Zinc	200	197		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 580-203402/23-A
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203402

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	500	556		mg/Kg		111	80 - 120	3	20
Antimony	150	149		mg/Kg		99	80 - 120	0	20
Arsenic	200	198		mg/Kg		99	80 - 120	0	20
Barium	200	205		mg/Kg		103	80 - 120	0	20
Cadmium	5.00	5.08		mg/Kg		102	80 - 120	2	20
Chromium	20.0	18.7		mg/Kg		93	80 - 120	1	20
Copper	25.0	24.2		mg/Kg		97	80 - 120	0	20
Lead	50.0	48.4		mg/Kg		97	80 - 120	0	20
Magnesium	1000	1070		mg/Kg		107	80 - 120	0	20
Nickel	50.0	49.4		mg/Kg		99	80 - 120	1	20
Silver	30.0	27.1		mg/Kg		90	80 - 120	0	20
Zinc	200	197		mg/Kg		99	80 - 120	0	20

Lab Sample ID: 580-53837-1 MS
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: BG-2-24
Prep Type: Total/NA
Prep Batch: 203402

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	29000		595	24600	4	mg/Kg	☼	-666	80 - 120
Antimony	0.78		178	180		mg/Kg	☼	100	80 - 120
Arsenic	13		238	254		mg/Kg	☼	101	80 - 120
Barium	290	F1	238	437	F1	mg/Kg	☼	62	80 - 120
Cadmium	0.57		5.95	6.81		mg/Kg	☼	105	80 - 120
Chromium	31	F1	23.8	45.2	F1	mg/Kg	☼	58	80 - 120
Copper	51	F1	29.7	60.5	F1	mg/Kg	☼	32	80 - 120
Lead	20		59.5	72.8		mg/Kg	☼	88	80 - 120
Magnesium	13000		1190	10500	4	mg/Kg	☼	-252	80 - 120
Nickel	41	F1	59.5	87.8	F1	mg/Kg	☼	78	80 - 120
Silver	0.091	J	35.7	33.8		mg/Kg	☼	94	80 - 120
Zinc	150	F1	238	335	F1	mg/Kg	☼	78	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-53837-1 MSD — **Client Sample ID: BG-2-24**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203564 — **Prep Batch: 203402**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	29000		600	24900	4	mg/Kg	☼	-613	80 - 120	1	20
Antimony	0.78		180	181		mg/Kg	☼	100	80 - 120	1	20
Arsenic	13		240	256		mg/Kg	☼	101	80 - 120	1	20
Barium	290	F1	240	438	F1	mg/Kg	☼	62	80 - 120	0	20
Cadmium	0.57		6.00	7.09		mg/Kg	☼	109	80 - 120	4	20
Chromium	31	F1	24.0	45.5	F1	mg/Kg	☼	59	80 - 120	1	20
Copper	51	F1	30.0	59.0	F1	mg/Kg	☼	26	80 - 120	2	20
Lead	20		60.0	73.3		mg/Kg	☼	88	80 - 120	1	20
Magnesium	13000		1200	10400	4	mg/Kg	☼	-258	80 - 120	1	20
Nickel	41	F1	60.0	88.6	F1	mg/Kg	☼	79	80 - 120	1	20
Silver	0.091	J	36.0	33.9		mg/Kg	☼	94	80 - 120	0	20
Zinc	150	F1	240	338	F1	mg/Kg	☼	79	80 - 120	1	20

Lab Sample ID: 580-53837-1 DU — **Client Sample ID: BG-2-24**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203564 — **Prep Batch: 203402**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	29000			29200		mg/Kg	☼			2	20
Antimony	0.78			0.826		mg/Kg	☼			6	20
Arsenic	13			13.3		mg/Kg	☼			4	20
Barium	290	F1		305		mg/Kg	☼			5	20
Cadmium	0.57			0.656		mg/Kg	☼			13	20
Chromium	31	F1		32.2		mg/Kg	☼			2	20
Copper	51	F1		51.3		mg/Kg	☼			0.5	20
Lead	20			20.5		mg/Kg	☼			0.8	20
Magnesium	13000			14100		mg/Kg	☼			4	20
Nickel	41	F1		46.2		mg/Kg	☼			12	20
Silver	0.091	J		0.0911	J	mg/Kg	☼			0.2	20
Zinc	150	F1		153		mg/Kg	☼			3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-203447/21-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203496 — **Prep Batch: 203447**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0060	mg/Kg		10/15/15 10:44	10/15/15 13:44	1

Lab Sample ID: LCS 580-203447/22-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203496 — **Prep Batch: 203447**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.155		mg/Kg		93	80 - 120		

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-203447/23-A
Matrix: Solid
Analysis Batch: 203496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203447

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.167	0.159		mg/Kg		95	80 - 120	3	20

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-203474/3
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			10/14/15 19:35	1

Lab Sample ID: LCS 580-203474/4
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates			4620	4470		mg/Kg		97	49 - 151		

Lab Sample ID: LCSD 580-203474/5
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates			4620	4080		mg/Kg		88	49 - 151	9	35

Client Sample ID: BG-2-24
Date Collected: 09/30/15 13:47
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:34	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: BG-2-24
Date Collected: 09/30/15 13:47
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-1
Matrix: Solid
Percent Solids: 72.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202892	10/09/15 11:23	JMB	TAL SEA
Total/NA	Analysis	8260C		1	202865	10/09/15 13:48	CJ	TAL SEA
Total/NA	Prep	3550B			202635	10/07/15 10:28	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 01:34	AHP	TAL SEA
Total/NA	Prep	5035			202807	10/08/15 14:10	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202828	10/08/15 20:07	D1R	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8081B		1	206760	12/01/15 22:26	DCV	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8082A		1	205612	11/14/15 00:50	NMI	TAL SEA
Total/NA	Prep	3546			202582	10/06/15 14:54	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/07/15 17:59	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		10	203564	10/15/15 21:34	FCW	TAL SEA
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 14:04	FCW	TAL SEA

Client Sample ID: MW-6-3.5
Date Collected: 09/30/15 14:46
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:39	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-6-3.5
Date Collected: 09/30/15 14:46
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-2
Matrix: Solid
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202892	10/09/15 11:23	JMB	TAL SEA
Total/NA	Analysis	8260C		1	202865	10/09/15 15:09	CJ	TAL SEA

Client Sample ID: MW-6-3.5

Lab Sample ID: 580-53837-2

Date Collected: 09/30/15 14:46

Matrix: Solid

Date Received: 10/01/15 16:40

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			202635	10/07/15 10:28	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 02:00	AHP	TAL SEA
Total/NA	Prep	5035			202807	10/08/15 14:10	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202828	10/08/15 20:40	D1R	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8081B		5	206760	12/01/15 22:43	DCV	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8082A		1	205612	11/14/15 01:40	NMI	TAL SEA
Total/NA	Prep	3546			202582	10/06/15 14:54	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/07/15 18:37	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 22:10	FCW	TAL SEA
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 14:14	FCW	TAL SEA

Client Sample ID: MW-6-24.2

Lab Sample ID: 580-53837-3

Date Collected: 09/30/15 15:46

Matrix: Solid

Date Received: 10/01/15 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202931	10/09/15 15:54	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:44	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-6-24.2

Lab Sample ID: 580-53837-3

Date Collected: 09/30/15 15:46

Matrix: Solid

Date Received: 10/01/15 16:40

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202892	10/09/15 11:23	JMB	TAL SEA
Total/NA	Analysis	8260C		1	202865	10/09/15 15:36	CJ	TAL SEA
Total/NA	Prep	3550B			202635	10/07/15 10:28	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 02:25	AHP	TAL SEA
Total/NA	Prep	5035			202807	10/08/15 14:10	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202828	10/08/15 21:13	D1R	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8081B		1	206760	12/01/15 23:00	DCV	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8082A		1	205612	11/14/15 01:57	NMI	TAL SEA
Total/NA	Prep	3546			202582	10/06/15 14:54	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/07/15 18:56	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 22:15	FCW	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: MW-6-24.2

Lab Sample ID: 580-53837-3
Date Collected: 09/30/15 15:46
Matrix: Solid
Date Received: 10/01/15 16:40
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 14:06	FCW	TAL SEA

Client Sample ID: MW-2-2

Lab Sample ID: 580-53837-4
Date Collected: 10/01/15 09:05
Matrix: Solid
Date Received: 10/01/15 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202931	10/09/15 15:52	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:49	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-2-2

Lab Sample ID: 580-53837-4
Date Collected: 10/01/15 09:05
Matrix: Solid
Date Received: 10/01/15 16:40
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202892	10/09/15 11:23	JMB	TAL SEA
Total/NA	Analysis	8260C		1	202865	10/09/15 16:03	CJ	TAL SEA
Total/NA	Prep	3550B			202635	10/07/15 10:28	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 02:51	AHP	TAL SEA
Total/NA	Prep	5035			202807	10/08/15 14:10	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202828	10/08/15 21:46	D1R	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8081B		5	206760	12/01/15 23:17	DCV	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8082A		1	205612	11/14/15 02:14	NMI	TAL SEA
Total/NA	Prep	3546			202582	10/06/15 14:54	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/07/15 19:15	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 22:19	FCW	TAL SEA
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 14:16	FCW	TAL SEA

Client Sample ID: MW-4-4

Lab Sample ID: 580-53837-6
Date Collected: 10/01/15 10:25
Matrix: Solid
Date Received: 10/01/15 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202931	10/09/15 15:48	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:54	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-4-4

Lab Sample ID: 580-53837-6

Date Collected: 10/01/15 10:25
Matrix: Solid
Date Received: 10/01/15 16:40
Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203469	10/15/15 13:09	JMB	TAL SEA
Total/NA	Analysis	8260C		1	203451	10/15/15 19:34	D1R	TAL SEA
Total/NA	Prep	3550B			202635	10/07/15 10:28	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 03:41	AHP	TAL SEA
Total/NA	Prep	5035			202807	10/08/15 14:10	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202828	10/08/15 22:52	D1R	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8081B		2	206760	12/01/15 23:51	DCV	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8082A		1	205612	11/14/15 02:47	NMI	TAL SEA
Total/NA	Prep	3546			202582	10/06/15 14:54	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/07/15 19:52	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 22:23	FCW	TAL SEA
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 14:18	FCW	TAL SEA

Client Sample ID: MW-2-8-A

Lab Sample ID: 580-53837-12

Date Collected: 10/01/15 09:25
Matrix: Solid
Date Received: 10/01/15 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 16:44	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:59	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202941	10/09/15 17:13	DGY	TAL SEA

Client Sample ID: MW-2-8-A

Lab Sample ID: 580-53837-12

Date Collected: 10/01/15 09:25
Matrix: Solid
Date Received: 10/01/15 16:40
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	203054	10/12/15 19:24	K1K	TAL SEA
Total/NA	Prep	5035	RA		203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C	RA	1	204000	10/22/15 17:44	JMB	TAL SEA
Total/NA	Prep	3550B			202944	10/09/15 18:44	KZ1	TAL SEA
Total/NA	Analysis	8270D		10	203587	10/16/15 23:22	ERB	TAL SEA
Total/NA	Prep	5035			203085	10/12/15 12:37	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	203132	10/13/15 05:24	TL1	TAL SEA
Total/NA	Prep	3550B			202920	10/09/15 14:01	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	205885	11/18/15 08:50	DMW	TAL SEA
Total/NA	Prep	3550B			202920	10/09/15 14:01	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	203709	10/19/15 19:25	DFE	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Client Sample ID: MW-2-8-A

Date Collected: 10/01/15 09:25
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53837-12

Matrix: Solid
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			202920	10/09/15 14:01	KZ1	TAL SEA
Total/NA	Analysis	8082A		1	203668	10/18/15 16:37	DFE	TAL SEA
Total/NA	Prep	3546			203017	10/11/15 08:58	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203114	10/12/15 20:07	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 22:28	FCW	TAL SEA
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 14:21	FCW	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	02-28-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53837-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-53837-1	BG-2-24	Solid	09/30/15 13:47	10/01/15 16:40
580-53837-2	MW-6-3.5	Solid	09/30/15 14:46	10/01/15 16:40
580-53837-3	MW-6-24.2	Solid	09/30/15 15:46	10/01/15 16:40
580-53837-4	MW-2-2	Solid	10/01/15 09:05	10/01/15 16:40
580-53837-6	MW-4-4	Solid	10/01/15 10:25	10/01/15 16:40
580-53837-12	MW-2-8-A	Solid	10/01/15 09:25	10/01/15 16:40

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TSTF 580-53837 Chain of Custody

☐ Rush

☐ Short Hold

Soil

Chain of Custody Record

Geo Pro LLC

Client	Client Contact	Date	Chain of Custody Number
PO Box 26	Richard Kent	10-1-15	23688
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
Battleground	360-907-5648		
City	**State / Zip Code**	**Sampler**	**Lab Contact**
	WA 98604	Geo Pro	Robert Greer
Project Name and Location (State)	**Billing Contact**		
Oseran Properties			
Contract/Purchase Order/Quote No.			
ECSI #1007			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 6020A-LL	NWTPH-Dx	8081B	9045C	9040-ASEP	8082A	7471A	8270D (Low)	8260C (Low)	8260 (VOC)	NWTPH-Gx-MS	Special Instructions/ Conditions of Receipt
BG-2-24	9-30-15	1347				X							X	X	X	X	X	X	X	X	X	X	X	4 Containers
MW-6-3.5	9-30-15	1446				X							X	X	X	X	X	X	X	X	X	X	X	4 " "
MW-6-24.2	9-30-15	1546				X							X	X	X	X	X	X	X	X	X	X	X	
MW-2-2	10-1-15	0905				X							X	X	X	X	X	X	X	X	X	X	X	4 " "
MW-2-24.5	10-1-15	0956				X							X	X	X	X	X	X	X	X	X	X	X	4 " "
MW-4-4	10-1-15	1025				X							X	X	X	X	X	X	X	X	X	X	X	3* " "

* Not enough sample for (2) 8oz containers

Cooler	Possible Hazard Identification	Sample Disposal	
☒ Yes ☐ No Cooler Temp: _____	☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client	☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)

☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Normal

QC Requirements (Specify) 3B, 5B IR/PT

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Richard Kent	10-1-15	1602 MDK 1602	1. Received By Sign/Print: Jessica Morgan	10/1/15	1602 1402
2. Relinquished By Sign/Print: Jessica Morgan	10/1/15	1640	2. Received By Sign/Print:	10/1/15	1640
3. Relinquished By Sign/Print:	Date	Time	3. Received By Sign/Print:	Date	Time

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Archive

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
GeoPro LLC	Richard Kent	10-1-15	23687
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
PO Box 26	360-907-5648		
City / State / Zip Code	**Sampler**	**Lab Contact**	
Battleground / WA / 98604	GeoPro	Robert Greer	
Project Name and Location (State)	**Billing Contact**		
Oseran Properties			
Contract/Purchase Order/Quote No.			
ECSI #1007			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): (MADEP APH)	NWTPH-Dx	Special Instructions/ Conditions of Receipt
~~BG~~ BG-2-14-A	9-30-15	1322				X									2 Containers
BG-2-19-A	9-30-15	1326				X									2 " "
MW-6-9-A	9-30-15	1506				X									2 " "
MW-6-12.5-A	9-30-15	1515				X									
MW-6-17-A	9-30-15	1549				X									
MW-2-8-A	10-1-15	0925				X									2 " "
MW-2-12-A	10-1-15	0942				X									1 " " *
MW-2-19-A	10-1-15	0950				X									2 " "
															* not enough sample for (2) 8oz jars

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☒ Yes ☐ No Cooler Temp: _____	☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Normal MDK

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	Richard Kent	10-1-15	1602 +1402	Jessica Morgan	10/1/15	1602 +1402
2.	Jessica Morgan	10/1/15	1640		10/1/15	1640
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: GeoPro Geologic Services

Job Number: 580-53837-1

Login Number: 53837
List Number: 1
Creator: Gonzales, Steve

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-53840-1
Client Project/Site: JSCS - NW Portland, Oregon

For:
GeoPro Geologic Services
PO BOX 26
Battle Ground, Washington 98604

Attn: Richard Kent

Authorized for release by:
12/3/2015 1:05:44 PM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 580-53840-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-53840-1

Comments
No additional comments.

Receipt
The samples were received on 10/1/2015 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.8º C and 5.8º C.

GC/MS VOA
Method(s) 8260C: Methylene chloride was detected above the reporting limit (RL) in the method blank associated with preparation batch 580-203073 and analytical batch 580-203054 as well as in the following samples: MW-4-24 (580-53840-1), MW-8-4 (580-53840-2) and (MB 580-203073/1-A). All affected samples were re-analyzed outside of holding time. Both sets of data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-203054 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The method blank for preparation batch 580-203073 and analytical batch 580-204000 contained Methylene chloride and Toluene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-204000 recovered above the upper control limit for Acrolein, Styrene, Tetrachloroethene, and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260C: Reanalysis of the following samples was performed outside of the analytical holding time due to the initial analysis falling outside the 12 hour tune window. : MW-8-24 (580-53840-3) and BG-3-4 (580-53840-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The method blank for preparation batch 580-202635 and analytical batch 580-203867 contained Diethyl phthalate, Butyl benzyl phthalate and Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: Due to sample matrix effect on the internal standard (ISTD) Perylene-d12, a 10X dilution was required for the following sample: BG-3-4 (580-53840-4). All target analyes associated with this ISTD have been reported from the dilution.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: The method blank for preparation batch 580-202634 and analytical batch 580-205593 contained beta-BHC, delta-BHC and trans-Nonachlor above the reporting limit (RL). There was insufficient sample to perform a re-extraction and/or re-analysis; therefore, the data have been reported. Several analytes were also reported aboive the MDL but below the RL.

Method(s) 8081B: Surrogate recovery for the following sample was outside of acceptance limits: (MB 580-202634/1-A). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

Method(s) 8081B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 580-202634 and analytical batch 580-205593 recovered outside control limits for several analytes. These analytes were biased high in the LCS and LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8081B: Surrogate TCMX and DCB recovery for the following samples was outside the upper control limit with evidence of matrix

Job ID: 580-53840-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

interference: MW-4-24 (580-53840-1), MW-8-4 (580-53840-2), MW-8-24 (580-53840-3), BG-3-4 (580-53840-4), BG-3-22.8 (580-53840-5), (580-53837-B-1-C), (580-53837-B-1-F MS) and (580-53837-B-1-G MSD).

Method(s) 8081B: The following sample(s) was analyzed outside of analytical holding time due to laboratory error. MW-4-24 (580-53840-1), MW-8-4 (580-53840-2), MW-8-24 (580-53840-3), BG-3-4 (580-53840-4), and BG-3-22.8 (580-53840-5). Results have been qualified and reported.

Method(s) 8082A: The surrogate recovery of Tetrachloro-m-xylene for the following samples was outside control limits (low): (LCS 580-202634/2-A) and (MB 580-202634/1-A). The LCSD surrogates were well within control. The LCS and LCSD spike recoveries were within acceptance limits as well. There is chromatographic evidence of carryover of matrix interference as large non-target peaks and the surrogate DCB was in control indicating a successful extraction; therefore, matrix interference is suspected and re-extraction and/or re-analysis was not performed.

Method(s) 8082A: The following sample was analyzed outside of method hold time due to laboratory error: BG-3-4 (580-53840-4)

Method(s) 8082A: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: BG-3-4 (580-53840-4). The cleanup procedure did not remove the matrix; therefore the data is biased on the low side due to matrix interference.

Method(s) NWTPH-Dx: The method blank in preperation batch 580-202582 and analytical batch 580-202652 had #2 Diesel (C10-C24) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: MW-4-24
Date Collected: 10/01/15 11:10
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-1
Matrix: Solid
Percent Solids: 87.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		49	4.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
1,1,1-Trichloroethane	ND		49	6.9	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
1,1,2,2-Tetrachloroethane	ND		12	2.8	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
1,1,2-Trichloroethane	ND		15	3.5	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
1,1-Dichloroethane	ND		49	5.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
1,2,3-Trichloropropane	ND		49	14	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
1,2-Dibromoethane	ND		20	4.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
1,2-Dichloroethane	ND		20	4.1	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
1,2-Dichloropropane	ND		15	3.0	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
2-Butanone	ND		490	64	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
2-Chloroethyl vinyl ether	ND		250	7.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
2-Hexanone	ND		250	44	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
4-Methyl-2-pentanone	ND		250	36	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Acetone	ND		990	210	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Acrolein	ND		1500	110	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Acrylonitrile	ND		490	120	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Benzene	ND		20	4.3	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Bromochloromethane	ND		49	5.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Bromodichloromethane	ND		49	1.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Bromoform	ND		49	8.0	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Bromomethane	ND		170	17	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Carbon disulfide	ND		49	5.4	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Carbon tetrachloride	ND		25	4.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Chlorobenzene	ND		49	12	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Chlorodibromomethane	ND		25	3.5	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Chloroethane	ND		490	20	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Chloroform	ND		49	5.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Chloromethane	ND		120	12	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
cis-1,2-Dichloroethene	ND		49	6.0	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
cis-1,3-Dichloropropene	ND		20	2.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Dibromomethane	ND		74	16	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Dichlorodifluoromethane	ND		49	8.0	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Ethylbenzene	ND		49	2.5	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Iodomethane	ND		250	7.8	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Isopropylbenzene	ND		49	3.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Methyl tert-butyl ether	ND		49	7.4	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Methylene Chloride	**68**	**B**	31	14	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
m-Xylene & p-Xylene	ND		49	3.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
o-Xylene	ND		49	3.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Styrene	ND		49	3.0	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
t-Butylbenzene	ND		49	3.8	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Tetrachloroethene	ND		25	6.5	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Toluene	ND		49	3.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
trans-1,2-Dichloroethene	ND		49	4.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
trans-1,3-Dichloropropene	ND		49	8.6	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
trans-1,4-Dichloro-2-butene	ND		250	20	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Trichloroethene	ND		30	3.8	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Trichlorofluoromethane	ND		49	7.3	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1
Vinyl acetate	ND		250	57	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1

Client Sample ID: MW-4-24
Date Collected: 10/01/15 11:10
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-1
Matrix: Solid
Percent Solids: 87.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		20	8.8	ug/Kg	☼	10/12/15 10:34	10/12/15 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 136*	*10/12/15 10:34*	*10/12/15 22:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*10/12/15 10:34*	*10/12/15 22:08*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 132*	*10/12/15 10:34*	*10/12/15 22:08*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*10/12/15 10:34*	*10/12/15 22:08*	*1*
Trifluorotoluene (Surr)	*95*		*65 - 140*	*10/12/15 10:34*	*10/12/15 22:08*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	H	31	14	ug/Kg	☼	10/12/15 10:34	10/22/15 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 136*	*10/12/15 10:34*	*10/22/15 18:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*10/12/15 10:34*	*10/22/15 18:17*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 132*	*10/12/15 10:34*	*10/22/15 18:17*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*10/12/15 10:34*	*10/22/15 18:17*	*1*
Trifluorotoluene (Surr)	*98*		*65 - 140*	*10/12/15 10:34*	*10/22/15 18:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
2-Methylnaphthalene	ND		2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Dimethyl phthalate	ND	F1	11	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Acenaphthylene	ND		2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Acenaphthene	ND	F1	2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Diethyl phthalate	**15**	**J F1 B**	23	1.7	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Fluorene	ND		2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Phenanthrene	ND	F1	2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Anthracene	ND		2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Di-n-butyl phthalate	**11**	**J**	57	5.7	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Fluoranthene	ND		2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Pyrene	ND		2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Butyl benzyl phthalate	**19**	**J B**	23	5.7	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Benzo[a]anthracene	ND		2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Chrysene	ND	F1	2.8	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Bis(2-ethylhexyl) phthalate	**40**	**J B**	68	5.7	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Di-n-octyl phthalate	**14**	**J F1**	57	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Benzo[b]fluoranthene	ND		2.3	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Benzo[k]fluoranthene	ND		2.8	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Benzo[a]pyrene	ND		3.4	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Indeno[1,2,3-cd]pyrene	ND	F1	4.5	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Dibenz(a,h)anthracene	ND	F1	4.5	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1
Benzo[g,h,i]perylene	ND	F1	2.8	0.57	ug/Kg	☼	10/07/15 10:28	10/21/15 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*88*		*42 - 151*	*10/07/15 10:28*	*10/21/15 04:07*	*1*

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Client Sample ID: MW-4-24
Date Collected: 10/01/15 11:10
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-1
Matrix: Solid
Percent Solids: 87.7

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.5	0.57	mg/Kg	☼	10/08/15 14:09	10/08/15 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*	*10/08/15 14:09*	*10/08/15 17:21*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.45	0.068	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
2,4'-DDE	ND	H	0.45	0.068	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
2,4'-DDT	ND	H	0.45	0.036	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
4,4'-DDD	ND	H	0.45	0.017	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
4,4'-DDE	ND	H	0.45	0.032	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
4,4'-DDT	ND	H *	0.45	0.034	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Aldrin	ND	H	0.23	0.027	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
alpha-BHC	ND	H	0.23	0.062	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
alpha-Chlordane	ND	H	0.23	0.030	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
beta-BHC	ND	H *	0.23	0.026	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Chlordane (technical)	ND	H *	2.3	0.32	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
cis-Nonachlor	ND	H	0.45	0.043	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
delta-BHC	ND	H *	0.23	0.033	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Dieldrin	ND	H	0.45	0.027	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Endosulfan I	ND	H	0.23	0.023	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Endosulfan II	ND	H	0.45	0.024	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Endosulfan sulfate	ND	H *	0.45	0.010	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Endrin	**0.11**	**J H B ***	0.45	0.021	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Endrin aldehyde	ND	H	0.45	0.044	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Endrin ketone	ND	H *	0.45	0.027	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
gamma-BHC (Lindane)	ND	H *	0.23	0.016	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
gamma-Chlordane	ND	H	0.23	0.030	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Heptachlor	**0.38**	**J H B**	0.45	0.034	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Heptachlor epoxide	**0.015**	**J H B ***	0.23	0.0088	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Methoxychlor	ND	H *	2.3	0.029	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
oxy-Chlordane	ND	H	0.45	0.068	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
Toxaphene	ND	H	23	1.8	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2
trans-Nonachlor	ND	H	0.45	0.068	ug/Kg	☼	10/07/15 10:18	12/02/15 00:09	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*333*	*X*	*60 - 128*	*10/07/15 10:18*	*12/02/15 00:09*	*2*
Tetrachloro-m-xylene	*281*	*X*	*35 - 129*	*10/07/15 10:18*	*12/02/15 00:09*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.1	0.056	ug/Kg	☼	10/07/15 10:18	11/14/15 03:04	1
PCB-1221	ND		1.2	0.38	ug/Kg	☼	10/07/15 10:18	11/14/15 03:04	1
PCB-1232	ND		1.2	0.25	ug/Kg	☼	10/07/15 10:18	11/14/15 03:04	1
PCB-1242	ND		1.1	0.24	ug/Kg	☼	10/07/15 10:18	11/14/15 03:04	1
PCB-1248	ND		1.2	0.18	ug/Kg	☼	10/07/15 10:18	11/14/15 03:04	1
PCB-1254	ND		1.1	0.10	ug/Kg	☼	10/07/15 10:18	11/14/15 03:04	1
PCB-1260	ND		1.1	0.15	ug/Kg	☼	10/07/15 10:18	11/14/15 03:04	1
PCB-1262	ND		1.1	0.21	ug/Kg	☼	10/07/15 10:18	11/14/15 03:04	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Client Sample ID: MW-4-24
Date Collected: 10/01/15 11:10
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-1
Matrix: Solid
Percent Solids: 87.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		1.1	0.24	ug/Kg	☼	10/07/15 10:18	11/14/15 03:04	1
Polychlorinated biphenyls, Total	ND		1.2	0.38	ug/Kg	☼	10/07/15 10:18	11/14/15 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*50 - 140*	*10/07/15 10:18*	*11/14/15 03:04*	*1*
Tetrachloro-m-xylene	*53*		*45 - 135*	*10/07/15 10:18*	*11/14/15 03:04*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**5.9**	**J B**	27	3.9	mg/Kg	☼	10/06/15 14:54	10/07/15 20:30	1
Motor Oil (>C24-C36)	ND		54	9.9	mg/Kg	☼	10/06/15 14:54	10/07/15 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*10/06/15 14:54*	*10/07/15 20:30*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		15	15	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Antimony	**0.22**		0.10	0.022	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Arsenic	**4.6**		0.26	0.093	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Barium	**110**		0.26	0.040	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Cadmium	**0.19**		0.10	0.0098	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Chromium	**15**		0.26	0.032	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Copper	**19**		0.21	0.050	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Lead	**3.8**		0.26	0.025	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Magnesium	**6100**		51	1.4	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Nickel	**29**		0.26	0.042	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Silver	**0.013**	**J**	0.10	0.0062	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5
Zinc	**54**		2.6	0.58	mg/Kg	☼	10/16/15 06:59	10/16/15 13:12	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022	0.0067	mg/Kg	☼	10/15/15 10:44	10/15/15 14:23	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.17**				SU			10/09/15 15:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			10/14/15 21:04	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**88**		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	**12**		0.10	0.10	%			10/08/15 09:44	1

Client Sample ID: MW-8-4
Date Collected: 10/01/15 13:15
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-2
Matrix: Solid
Percent Solids: 77.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		54	5.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
1,1,1-Trichloroethane	ND		54	7.6	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
1,1,2,2-Tetrachloroethane	ND		14	3.1	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
1,1,2-Trichloroethane	ND		16	3.8	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
1,1-Dichloroethane	ND		54	5.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
1,2,3-Trichloropropane	ND		54	16	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
1,2-Dibromoethane	ND		22	4.6	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
1,2-Dichloroethane	ND		22	4.5	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
1,2-Dichloropropane	ND		16	3.3	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
2-Butanone	ND		540	71	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
2-Chloroethyl vinyl ether	ND		270	8.4	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
2-Hexanone	ND		270	48	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
4-Methyl-2-pentanone	ND		270	40	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Acetone	ND		1100	240	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Acrolein	ND		1600	120	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Acrylonitrile	ND		540	130	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Benzene	**93**		22	4.8	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Bromochloromethane	ND		54	6.3	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Bromodichloromethane	ND		54	1.9	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Bromoform	ND		54	8.9	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Bromomethane	ND		190	18	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Carbon disulfide	ND		54	6.0	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Carbon tetrachloride	ND		27	5.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Chlorobenzene	ND		54	13	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Chlorodibromomethane	ND		27	3.8	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Chloroethane	ND		540	22	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Chloroform	ND		54	5.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Chloromethane	ND		140	14	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
cis-1,2-Dichloroethene	ND		54	6.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
cis-1,3-Dichloropropene	ND		22	2.5	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Dibromomethane	ND		82	18	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Dichlorodifluoromethane	ND		54	8.9	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Ethylbenzene	**210**		54	2.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Iodomethane	ND		270	8.6	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Isopropylbenzene	**18**	**J**	54	3.5	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Methyl tert-butyl ether	ND		54	8.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Methylene Chloride	**74**	**B**	34	16	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
m-Xylene & p-Xylene	**240**		54	4.1	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
o-Xylene	**86**		54	4.1	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Styrene	ND		54	3.3	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
t-Butylbenzene	ND		54	4.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Tetrachloroethene	ND		27	7.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Toluene	**60**		54	3.5	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
trans-1,2-Dichloroethene	ND		54	5.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
trans-1,3-Dichloropropene	ND		54	9.5	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
trans-1,4-Dichloro-2-butene	ND		270	22	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Trichloroethene	ND		33	4.2	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Trichlorofluoromethane	ND		54	8.0	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1
Vinyl acetate	ND		270	63	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1

Client Sample ID: MW-8-4
Date Collected: 10/01/15 13:15
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-2
Matrix: Solid
Percent Solids: 77.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		22	9.7	ug/Kg	☼	10/12/15 10:34	10/12/15 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 136*	*10/12/15 10:34*	*10/12/15 22:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*	*10/12/15 10:34*	*10/12/15 22:41*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 132*	*10/12/15 10:34*	*10/12/15 22:41*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*10/12/15 10:34*	*10/12/15 22:41*	*1*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/12/15 10:34*	*10/12/15 22:41*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	H	34	16	ug/Kg	☼	10/12/15 10:34	10/22/15 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*71 - 136*	*10/12/15 10:34*	*10/22/15 18:50*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*	*10/12/15 10:34*	*10/22/15 18:50*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/12/15 10:34*	*10/22/15 18:50*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*10/12/15 10:34*	*10/22/15 18:50*	*1*
Trifluorotoluene (Surr)	*96*		*65 - 140*	*10/12/15 10:34*	*10/22/15 18:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**230**		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
2-Methylnaphthalene	**77**		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Dimethyl phthalate	ND		13	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Acenaphthylene	**3.7**		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Acenaphthene	**2.2**	**J**	2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Diethyl phthalate	**17**	**J B**	26	1.9	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Fluorene	**1.4**	**J**	2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Phenanthrene	**3.9**		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Anthracene	**1.3**	**J**	2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Di-n-butyl phthalate	**7.7**	**J**	65	6.5	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Fluoranthene	**10**		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Pyrene	**15**		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Butyl benzyl phthalate	**12**	**J B**	26	6.5	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Benzo[a]anthracene	**7.0**		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Chrysene	**8.6**		3.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Bis(2-ethylhexyl) phthalate	**45**	**J B**	78	6.5	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Di-n-octyl phthalate	ND		65	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Benzo[b]fluoranthene	**22**		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Benzo[k]fluoranthene	**6.2**		3.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Benzo[a]pyrene	**10**		3.9	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Indeno[1,2,3-cd]pyrene	**5.8**		5.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Dibenz(a,h)anthracene	**1.1**	**J**	5.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1
Benzo[g,h,i]perylene	**4.7**		3.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*92*		*42 - 151*	*10/07/15 10:28*	*10/21/15 05:23*	*1*

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Client Sample ID: MW-8-4
Date Collected: 10/01/15 13:15
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-2
Matrix: Solid
Percent Solids: 77.1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	2.4	J	5.1	0.64	mg/Kg	☼	10/08/15 14:09	10/08/15 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*10/08/15 14:09*	*10/08/15 17:53*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.52	0.078	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
2,4'-DDE	ND	H	0.52	0.078	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
2,4'-DDT	ND	H	0.52	0.042	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
4,4'-DDD	ND	H	0.52	0.019	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
4,4'-DDE	ND	H	0.52	0.037	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
4,4'-DDT	ND	H *	0.52	0.039	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Aldrin	ND	H	0.26	0.031	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
alpha-BHC	ND	H	0.26	0.072	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
alpha-Chlordane	ND	H	0.26	0.035	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
beta-BHC	ND	H *	0.26	0.030	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Chlordane (technical)	ND	H *	2.6	0.36	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
cis-Nonachlor	ND	H	0.52	0.050	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
delta-BHC	ND	H *	0.26	0.038	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Dieldrin	ND	H	0.52	0.031	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Endosulfan I	ND	H	0.26	0.026	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Endosulfan II	ND	H	0.52	0.028	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Endosulfan sulfate	ND	H *	0.52	0.012	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Endrin	ND	H *	0.52	0.024	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Endrin aldehyde	ND	H	0.52	0.051	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Endrin ketone	ND	H *	0.52	0.031	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
gamma-BHC (Lindane)	ND	H *	0.26	0.018	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
gamma-Chlordane	ND	H	0.26	0.035	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Heptachlor	ND	H	0.52	0.039	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Heptachlor epoxide	ND	H *	0.26	0.010	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Methoxychlor	ND	H *	2.6	0.033	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
oxy-Chlordane	ND	H	0.52	0.078	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
Toxaphene	ND	H	26	2.0	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2
trans-Nonachlor	ND	H	0.52	0.078	ug/Kg	☼	10/07/15 10:18	12/02/15 00:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*154*	*X*	*60 - 128*	*10/07/15 10:18*	*12/02/15 00:26*	*2*
Tetrachloro-m-xylene	*147*	*X*	*35 - 129*	*10/07/15 10:18*	*12/02/15 00:26*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.065	ug/Kg	☼	10/07/15 10:18	11/14/15 03:21	1
PCB-1221	ND		1.4	0.44	ug/Kg	☼	10/07/15 10:18	11/14/15 03:21	1
PCB-1232	ND		1.4	0.28	ug/Kg	☼	10/07/15 10:18	11/14/15 03:21	1
PCB-1242	ND		1.3	0.27	ug/Kg	☼	10/07/15 10:18	11/14/15 03:21	1
PCB-1248	ND		1.4	0.21	ug/Kg	☼	10/07/15 10:18	11/14/15 03:21	1
PCB-1254	ND		1.3	0.12	ug/Kg	☼	10/07/15 10:18	11/14/15 03:21	1
PCB-1260	ND		1.3	0.17	ug/Kg	☼	10/07/15 10:18	11/14/15 03:21	1
PCB-1262	ND		1.3	0.25	ug/Kg	☼	10/07/15 10:18	11/14/15 03:21	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Client Sample ID: MW-8-4
Date Collected: 10/01/15 13:15
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-2
Matrix: Solid
Percent Solids: 77.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		1.3	0.27	ug/Kg	☼	10/07/15 10:18	11/14/15 03:21	1
Polychlorinated biphenyls, Total	ND		1.4	0.44	ug/Kg	☼	10/07/15 10:18	11/14/15 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*50 - 140*	*10/07/15 10:18*	*11/14/15 03:21*	*1*
Tetrachloro-m-xylene	*62*		*45 - 135*	*10/07/15 10:18*	*11/14/15 03:21*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**12**	**J B**	32	4.5	mg/Kg	☼	10/06/15 14:54	10/07/15 20:49	1
Motor Oil (>C24-C36)	**17**	**J**	63	11	mg/Kg	☼	10/06/15 14:54	10/07/15 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*10/06/15 14:54*	*10/07/15 20:49*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20000**		18	18	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Antimony	**0.34**		0.12	0.025	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Arsenic	**8.0**		0.29	0.11	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Barium	**200**		0.29	0.046	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Cadmium	**0.24**		0.12	0.011	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Chromium	**23**		0.29	0.037	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Copper	**16**		0.23	0.058	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Lead	**19**		0.29	0.028	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Magnesium	**4600**		59	1.6	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Nickel	**15**		0.29	0.048	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Silver	**0.13**		0.12	0.0070	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5
Zinc	**91**		2.9	0.66	mg/Kg	☼	10/16/15 06:59	10/16/15 13:16	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.047**		0.025	0.0075	mg/Kg	☼	10/15/15 10:44	10/15/15 14:28	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.58**				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**11000**		2000	44	mg/Kg			10/14/15 21:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**77**		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	**23**		0.10	0.10	%			10/08/15 09:44	1

Client Sample ID: MW-8-24
Date Collected: 10/01/15 13:55
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-3
Matrix: Solid
Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	60	5.7	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
1,1,1-Trichloroethane	ND	H	60	8.4	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
1,1,2,2-Tetrachloroethane	ND	H	15	3.4	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
1,1,2-Trichloroethane	ND	H	18	4.2	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
1,1-Dichloroethane	ND	H	60	6.3	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
1,2,3-Trichloropropane	ND	H	60	17	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
1,2-Dibromoethane	ND	H	24	5.1	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
1,2-Dichloroethane	ND	H	24	4.9	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
1,2-Dichloropropane	ND	H	18	3.6	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
2-Butanone	ND	H	600	78	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
2-Chloroethyl vinyl ether	ND	H	300	9.3	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
2-Hexanone	ND	H	300	53	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
4-Methyl-2-pentanone	ND	H	300	44	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Acetone	ND	H	1200	260	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Acrolein	ND	H	1800	140	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Acrylonitrile	ND	H	600	140	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Benzene	ND	H	24	5.2	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Bromochloromethane	ND	H	60	6.9	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Bromodichloromethane	ND	H	60	2.1	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Bromoform	ND	H	60	9.7	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Bromomethane	ND	H	210	20	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Carbon disulfide	ND	H	60	6.6	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Carbon tetrachloride	ND	H	30	5.7	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Chlorobenzene	ND	H	60	15	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Chlorodibromomethane	ND	H	30	4.2	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Chloroethane	ND	H	600	24	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Chloroform	ND	H	60	6.3	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Chloromethane	ND	H	150	15	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
cis-1,2-Dichloroethene	ND	H	60	7.3	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
cis-1,3-Dichloropropene	ND	H	24	2.7	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Dibromomethane	ND	H	90	20	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Dichlorodifluoromethane	ND	H	60	9.7	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Ethylbenzene	ND	H	60	3.0	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Iodomethane	ND	H	300	9.4	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Isopropylbenzene	ND	H	60	3.9	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Methyl tert-butyl ether	ND	H	60	9.0	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Methylene Chloride	ND	H	37	17	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
m-Xylene & p-Xylene	ND	H	60	4.5	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
o-Xylene	ND	H	60	4.5	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Styrene	ND	H	60	3.6	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
t-Butylbenzene	ND	H	60	4.6	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Tetrachloroethene	ND	H	30	7.9	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Toluene	ND	H	60	3.9	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
trans-1,2-Dichloroethene	ND	H	60	5.7	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
trans-1,3-Dichloropropene	ND	H	60	10	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
trans-1,4-Dichloro-2-butene	ND	H	300	24	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Trichloroethene	ND	H	36	4.6	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Trichlorofluoromethane	ND	H	60	8.8	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1
Vinyl acetate	ND	H	300	69	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1

Client Sample ID: MW-8-24
Date Collected: 10/01/15 13:55
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-3
Matrix: Solid
Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	H	24	11	ug/Kg	☼	10/12/15 10:34	10/22/15 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*	*10/12/15 10:34*	*10/22/15 19:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*	*10/12/15 10:34*	*10/22/15 19:23*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 132*	*10/12/15 10:34*	*10/22/15 19:23*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*10/12/15 10:34*	*10/22/15 19:23*	*1*
Trifluorotoluene (Surr)	*98*		*65 - 140*	*10/12/15 10:34*	*10/22/15 19:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
2-Methylnaphthalene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Dimethyl phthalate	ND		13	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Acenaphthylene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Acenaphthene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Diethyl phthalate	**16**	**J B**	26	1.9	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Fluorene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Phenanthrene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Anthracene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Di-n-butyl phthalate	**7.3**	**J**	65	6.5	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Fluoranthene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Pyrene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Butyl benzyl phthalate	**8.2**	**J B**	26	6.5	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Benzo[a]anthracene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Chrysene	ND		3.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Bis(2-ethylhexyl) phthalate	**45**	**J B**	78	6.5	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Di-n-octyl phthalate	**5.7**	**J**	65	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Benzo[b]fluoranthene	ND		2.6	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Benzo[k]fluoranthene	ND		3.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Benzo[a]pyrene	ND		3.9	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Dibenz(a,h)anthracene	ND		5.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1
Benzo[g,h,i]perylene	ND		3.2	0.65	ug/Kg	☼	10/07/15 10:28	10/21/15 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*89*		*42 - 151*	*10/07/15 10:28*	*10/21/15 05:49*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.5	0.69	mg/Kg	☼	10/08/15 14:09	10/08/15 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*10/08/15 14:09*	*10/08/15 18:27*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.26	0.039	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
2,4'-DDE	ND	H	0.26	0.039	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
2,4'-DDT	ND	H	0.26	0.021	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
4,4'-DDD	ND	H	0.26	0.0095	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1

Client Sample ID: MW-8-24
Date Collected: 10/01/15 13:55
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-3
Matrix: Solid
Percent Solids: 76.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	0.26	0.018	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
4,4'-DDT	ND	H *	0.26	0.020	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Aldrin	ND	H	0.13	0.015	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
alpha-BHC	ND	H	0.13	0.036	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
alpha-Chlordane	ND	H	0.13	0.017	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
beta-BHC	ND	H *	0.13	0.015	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Chlordane (technical)	ND	H *	1.3	0.18	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
cis-Nonachlor	ND	H	0.26	0.025	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
delta-BHC	ND	H *	0.13	0.019	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Dieldrin	ND	H	0.26	0.015	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Endosulfan I	ND	H	0.13	0.013	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Endosulfan II	ND	H	0.26	0.014	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Endosulfan sulfate	**0.13**	**J H B ***	0.26	0.0059	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Endrin	ND	H *	0.26	0.012	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Endrin aldehyde	ND	H	0.26	0.025	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Endrin ketone	ND	H *	0.26	0.016	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
gamma-BHC (Lindane)	ND	H *	0.13	0.0091	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
gamma-Chlordane	ND	H	0.13	0.017	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Heptachlor	ND	H	0.26	0.019	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Heptachlor epoxide	ND	H *	0.13	0.0050	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Methoxychlor	ND	H *	1.3	0.016	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
oxy-Chlordane	ND	H	0.26	0.039	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
Toxaphene	ND	H	13	1.0	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1
trans-Nonachlor	ND	H	0.26	0.039	ug/Kg	☼	10/07/15 10:18	12/02/15 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*181*	*X*	*60 - 128*	*10/07/15 10:18*	*12/02/15 00:43*	*1*
Tetrachloro-m-xylene	*116*		*35 - 129*	*10/07/15 10:18*	*12/02/15 00:43*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.064	ug/Kg	☼	10/07/15 10:18	11/14/15 03:37	1
PCB-1221	ND		1.4	0.44	ug/Kg	☼	10/07/15 10:18	11/14/15 03:37	1
PCB-1232	ND		1.4	0.28	ug/Kg	☼	10/07/15 10:18	11/14/15 03:37	1
PCB-1242	ND		1.3	0.27	ug/Kg	☼	10/07/15 10:18	11/14/15 03:37	1
PCB-1248	ND		1.4	0.21	ug/Kg	☼	10/07/15 10:18	11/14/15 03:37	1
PCB-1254	ND		1.3	0.12	ug/Kg	☼	10/07/15 10:18	11/14/15 03:37	1
PCB-1260	ND		1.3	0.17	ug/Kg	☼	10/07/15 10:18	11/14/15 03:37	1
PCB-1262	ND		1.3	0.24	ug/Kg	☼	10/07/15 10:18	11/14/15 03:37	1
PCB-1268	ND		1.3	0.27	ug/Kg	☼	10/07/15 10:18	11/14/15 03:37	1
Polychlorinated biphenyls, Total	ND		1.4	0.44	ug/Kg	☼	10/07/15 10:18	11/14/15 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*50 - 140*	*10/07/15 10:18*	*11/14/15 03:37*	*1*
Tetrachloro-m-xylene	*45*		*45 - 135*	*10/07/15 10:18*	*11/14/15 03:37*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**10**	**J B**	31	4.4	mg/Kg	☼	10/06/15 14:54	10/07/15 21:08	1
Motor Oil (>C24-C36)	**12**	**J**	61	11	mg/Kg	☼	10/06/15 14:54	10/07/15 21:08	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Client Sample ID: MW-8-24
Date Collected: 10/01/15 13:55
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-3
Matrix: Solid
Percent Solids: 76.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	63		50 - 150	10/06/15 14:54	10/07/15 21:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		17	17	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Antimony	0.29		0.11	0.024	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Arsenic	5.1		0.28	0.10	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Barium	150		0.28	0.044	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Cadmium	0.28		0.11	0.011	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Chromium	17		0.28	0.036	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Copper	21		0.23	0.056	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Lead	7.2		0.28	0.027	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Magnesium	5800		57	1.5	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Nickel	22		0.28	0.046	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Silver	0.028	J	0.11	0.0068	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5
Zinc	68		2.8	0.64	mg/Kg	☼	10/16/15 06:59	10/16/15 13:21	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.026	0.0078	mg/Kg	☼	10/15/15 10:44	10/15/15 14:30	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.10				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	110	J	2000	44	mg/Kg			10/14/15 21:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	23		0.10	0.10	%			10/08/15 09:44	1

Client Sample ID: BG-3-4
Date Collected: 10/01/15 14:50
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-4
Matrix: Solid
Percent Solids: 74.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	64	6.1	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
1,1,1-Trichloroethane	ND	H	64	9.0	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
1,1,2,2-Tetrachloroethane	ND	H	16	3.7	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
1,1,2-Trichloroethane	ND	H	19	4.5	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
1,1-Dichloroethane	ND	H	64	6.8	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
1,2,3-Trichloropropane	ND	H	64	18	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
1,2-Dibromoethane	ND	H	26	5.5	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
1,2-Dichloroethane	ND	H	26	5.3	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
1,2-Dichloropropane	ND	H	19	3.9	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
2-Butanone	ND	H	640	84	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
2-Chloroethyl vinyl ether	ND	H	320	10	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
2-Hexanone	ND	H	320	57	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
4-Methyl-2-pentanone	ND	H	320	47	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Acetone	ND	H	1300	280	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Acrolein	ND	H	1900	150	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Acrylonitrile	ND	H	640	150	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Benzene	**8.1**	**J H**	26	5.6	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Bromochloromethane	ND	H	64	7.4	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Bromodichloromethane	ND	H	64	2.3	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Bromoform	ND	H	64	10	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Bromomethane	ND	H	230	22	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Carbon disulfide	ND	H	64	7.1	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Carbon tetrachloride	ND	H	32	6.1	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Chlorobenzene	ND	H	64	16	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Chlorodibromomethane	ND	H	32	4.5	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Chloroethane	ND	H	640	26	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Chloroform	ND	H	64	6.8	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Chloromethane	ND	H	160	16	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
cis-1,2-Dichloroethene	ND	H	64	7.9	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
cis-1,3-Dichloropropene	ND	H	26	2.9	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Dibromomethane	ND	H	97	21	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Dichlorodifluoromethane	ND	H	64	10	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Ethylbenzene	**8.5**	**J H**	64	3.2	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Iodomethane	ND	H	320	10	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Isopropylbenzene	**5.5**	**J H**	64	4.2	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Methyl tert-butyl ether	ND	H	64	9.7	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Methylene Chloride	ND	H	40	18	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
m-Xylene & p-Xylene	**18**	**J H**	64	4.8	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
o-Xylene	**10**	**J H**	64	4.8	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Styrene	ND	H	64	3.9	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
t-Butylbenzene	ND	H	64	5.0	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Tetrachloroethene	ND	H	32	8.5	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Toluene	**39**	**J H B**	64	4.2	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
trans-1,2-Dichloroethene	ND	H	64	6.1	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
trans-1,3-Dichloropropene	ND	H	64	11	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
trans-1,4-Dichloro-2-butene	ND	H	320	26	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Trichloroethene	ND	H	39	5.0	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Trichlorofluoromethane	ND	H	64	9.5	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1
Vinyl acetate	ND	H	320	74	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1

Client Sample ID: BG-3-4
Date Collected: 10/01/15 14:50
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-4
Matrix: Solid
Percent Solids: 74.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	H	26	11	ug/Kg	☼	10/12/15 10:34	10/22/15 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*	*10/12/15 10:34*	*10/22/15 19:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*10/12/15 10:34*	*10/22/15 19:55*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/12/15 10:34*	*10/22/15 19:55*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/12/15 10:34*	*10/22/15 19:55*	*1*
Trifluorotoluene (Surr)	*98*		*65 - 140*	*10/12/15 10:34*	*10/22/15 19:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**43**		2.7	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
2-Methylnaphthalene	**16**		2.7	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Dimethyl phthalate	ND		13	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Acenaphthylene	**23**		2.7	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Acenaphthene	**6.1**		2.7	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Diethyl phthalate	**15**	**J B**	27	2.0	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Fluorene	**20**		2.7	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Phenanthrene	**270**		2.7	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Anthracene	**73**		2.7	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Di-n-butyl phthalate	**15**	**J**	66	6.6	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Fluoranthene	**480**		2.7	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Pyrene	**430**		2.7	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Butyl benzyl phthalate	**30**	**B**	27	6.6	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Benzo[a]anthracene	**260**		2.7	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Chrysene	**240**		3.3	0.66	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1
Bis(2-ethylhexyl) phthalate	**56**	**J B**	80	6.6	ug/Kg	☼	10/07/15 10:28	10/21/15 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*85*		*42 - 151*	*10/07/15 10:28*	*10/21/15 06:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	**30**	**J**	660	6.6	ug/Kg	☼	10/07/15 10:28	10/25/15 13:53	10
Benzo[b]fluoranthene	**500**		27	6.6	ug/Kg	☼	10/07/15 10:28	10/25/15 13:53	10
Benzo[k]fluoranthene	**200**		33	6.6	ug/Kg	☼	10/07/15 10:28	10/25/15 13:53	10
Benzo[a]pyrene	**380**		40	6.6	ug/Kg	☼	10/07/15 10:28	10/25/15 13:53	10
Indeno[1,2,3-cd]pyrene	**150**		53	6.6	ug/Kg	☼	10/07/15 10:28	10/25/15 13:53	10
Dibenz(a,h)anthracene	**27**	**J**	53	6.6	ug/Kg	☼	10/07/15 10:28	10/25/15 13:53	10
Benzo[g,h,i]perylene	**140**		33	6.6	ug/Kg	☼	10/07/15 10:28	10/25/15 13:53	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**4.2**	**J**	5.9	0.74	mg/Kg	☼	10/08/15 14:09	10/08/15 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*	*10/08/15 14:09*	*10/08/15 19:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	1.3	0.20	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5

Client Sample ID: BG-3-4
Date Collected: 10/01/15 14:50
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-4
Matrix: Solid
Percent Solids: 74.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDE	ND	H	1.3	0.20	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
2,4'-DDT	ND	H	1.3	0.11	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
4,4'-DDD	**6.0**	**H B**	1.3	0.048	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
4,4'-DDE	ND	H	1.3	0.092	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
4,4'-DDT	**2.7**	**H B ***	1.3	0.099	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Aldrin	ND	H	0.65	0.077	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
alpha-BHC	ND	H	0.65	0.18	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
alpha-Chlordane	ND	H	0.65	0.088	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
beta-BHC	**48**	**H B ***	0.65	0.075	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Chlordane (technical)	ND	H *	6.5	0.92	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
cis-Nonachlor	ND	H	1.3	0.13	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
delta-BHC	**17**	**H B ***	0.65	0.097	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Dieldrin	**0.81**	**J H B**	1.3	0.077	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Endosulfan I	ND	H	0.65	0.067	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Endosulfan II	ND	H	1.3	0.070	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Endosulfan sulfate	ND	H *	1.3	0.030	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Endrin	ND	H *	1.3	0.061	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Endrin aldehyde	ND	H	1.3	0.13	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Endrin ketone	ND	H *	1.3	0.079	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
gamma-BHC (Lindane)	**4.8**	**H B ***	0.65	0.046	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
gamma-Chlordane	ND	H	0.65	0.088	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Heptachlor	**26**	**H B**	1.3	0.098	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Heptachlor epoxide	ND	H *	0.65	0.026	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Methoxychlor	ND	H *	6.5	0.084	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
oxy-Chlordane	ND	H	1.3	0.20	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
Toxaphene	ND	H	65	5.1	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5
trans-Nonachlor	ND	H	1.3	0.20	ug/Kg	☼	10/07/15 10:18	12/02/15 01:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*260*	*X*	*60 - 128*	*10/07/15 10:18*	*12/02/15 01:00*	*5*
Tetrachloro-m-xylene	*378*	*X*	*35 - 129*	*10/07/15 10:18*	*12/02/15 01:00*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	H	1.3	0.065	ug/Kg	☼	10/07/15 10:18	11/18/15 21:24	1
PCB-1221	ND	H	1.4	0.44	ug/Kg	☼	10/07/15 10:18	11/18/15 21:24	1
PCB-1232	ND	H	1.4	0.29	ug/Kg	☼	10/07/15 10:18	11/18/15 21:24	1
PCB-1242	ND	H	1.3	0.27	ug/Kg	☼	10/07/15 10:18	11/18/15 21:24	1
PCB-1248	ND	H	1.4	0.21	ug/Kg	☼	10/07/15 10:18	11/18/15 21:24	1
PCB-1254	ND	H	1.3	0.12	ug/Kg	☼	10/07/15 10:18	11/18/15 21:24	1
PCB-1260	ND	H	1.3	0.17	ug/Kg	☼	10/07/15 10:18	11/18/15 21:24	1
PCB-1262	ND	H	1.3	0.25	ug/Kg	☼	10/07/15 10:18	11/18/15 21:24	1
PCB-1268	ND	H	1.3	0.27	ug/Kg	☼	10/07/15 10:18	11/18/15 21:24	1
Polychlorinated biphenyls, Total	ND	H	1.4	0.44	ug/Kg	☼	10/07/15 10:18	11/18/15 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*258*	*X*	*50 - 140*	*10/07/15 10:18*	*11/18/15 21:24*	*1*
Tetrachloro-m-xylene	*319*	*X*	*45 - 135*	*10/07/15 10:18*	*11/18/15 21:24*	*1*

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Client Sample ID: BG-3-4
Date Collected: 10/01/15 14:50
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-4
Matrix: Solid
Percent Solids: 74.9

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	66	B	31	4.5	mg/Kg	☼	10/06/15 14:54	10/07/15 21:27	1
Motor Oil (>C24-C36)	280		63	11	mg/Kg	☼	10/06/15 14:54	10/07/15 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*50 - 150*	*10/06/15 14:54*	*10/07/15 21:27*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19000		18	18	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Antimony	3.4		0.12	0.025	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Arsenic	11		0.30	0.11	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Barium	190		0.30	0.046	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Cadmium	0.92		0.12	0.011	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Chromium	58		0.30	0.037	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Copper	75		0.24	0.058	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Lead	310		0.30	0.028	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Magnesium	3700		59	1.6	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Nickel	21		0.30	0.048	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Silver	4.2		0.12	0.0071	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5
Zinc	430		3.0	0.66	mg/Kg	☼	10/16/15 06:59	10/16/15 13:25	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8		0.24	0.072	mg/Kg	☼	10/15/15 10:44	10/15/15 14:56	10

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.80				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	52000		2000	44	mg/Kg			10/14/15 21:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	25		0.10	0.10	%			10/08/15 09:44	1

Client Sample ID: BG-3-22.8
Date Collected: 10/01/15 15:45
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-5
Matrix: Solid
Percent Solids: 73.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
2-Methylnaphthalene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Dimethyl phthalate	ND		13	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Acenaphthylene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Acenaphthene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Diethyl phthalate	**15**	**J B**	27	2.0	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Fluorene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Phenanthrene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Anthracene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Di-n-butyl phthalate	**7.5**	**J**	67	6.7	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Fluoranthene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Pyrene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Butyl benzyl phthalate	**9.3**	**J B**	27	6.7	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Benzo[a]anthracene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Chrysene	ND		3.3	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Bis(2-ethylhexyl) phthalate	**52**	**J B**	80	6.7	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Di-n-octyl phthalate	**27**	**J**	67	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Benzo[b]fluoranthene	ND		2.7	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Benzo[k]fluoranthene	ND		3.3	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Benzo[a]pyrene	ND		4.0	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Indeno[1,2,3-cd]pyrene	ND		5.3	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Dibenz(a,h)anthracene	ND		5.3	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1
Benzo[g,h,i]perylene	ND		3.3	0.67	ug/Kg	☼	10/07/15 10:29	10/21/15 06:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*80*		*42 - 151*	*10/07/15 10:29*	*10/21/15 06:39*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.27	0.040	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
2,4'-DDE	ND	H	0.27	0.040	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
2,4'-DDT	ND	H	0.27	0.021	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
4,4'-DDD	ND	H	0.27	0.0098	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
4,4'-DDE	ND	H	0.27	0.019	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
4,4'-DDT	ND	H *	0.27	0.020	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Aldrin	ND	H	0.13	0.016	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
alpha-BHC	ND	H	0.13	0.037	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
alpha-Chlordane	ND	H	0.13	0.018	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
beta-BHC	ND	H *	0.13	0.015	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Chlordane (technical)	ND	H *	1.3	0.19	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
cis-Nonachlor	ND	H	0.27	0.026	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
delta-BHC	ND	H *	0.13	0.020	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Dieldrin	ND	H	0.27	0.016	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Endosulfan I	ND	H	0.13	0.014	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Endosulfan II	ND	H	0.27	0.014	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Endosulfan sulfate	ND	H *	0.27	0.0061	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Endrin	ND	H *	0.27	0.012	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Endrin aldehyde	ND	H	0.27	0.026	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Endrin ketone	ND	H *	0.27	0.016	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
gamma-BHC (Lindane)	ND	H *	0.13	0.0094	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1

Client Sample ID: BG-3-22.8
Date Collected: 10/01/15 15:45
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-5
Matrix: Solid
Percent Solids: 73.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	ND	H	0.13	0.018	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Heptachlor	ND	H	0.27	0.020	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Heptachlor epoxide	ND	H *	0.13	0.0052	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Methoxychlor	ND	H *	1.3	0.017	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
oxy-Chlordane	ND	H	0.27	0.040	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
Toxaphene	ND	H	13	1.0	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1
trans-Nonachlor	ND	H	0.27	0.040	ug/Kg	☼	10/07/15 10:18	12/02/15 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*222*	*X*	*60 - 128*	*10/07/15 10:18*	*12/02/15 01:17*	*1*
Tetrachloro-m-xylene	*126*		*35 - 129*	*10/07/15 10:18*	*12/02/15 01:17*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.066	ug/Kg	☼	10/07/15 10:18	11/14/15 04:11	1
PCB-1221	ND		1.5	0.45	ug/Kg	☼	10/07/15 10:18	11/14/15 04:11	1
PCB-1232	ND		1.5	0.29	ug/Kg	☼	10/07/15 10:18	11/14/15 04:11	1
PCB-1242	ND		1.3	0.28	ug/Kg	☼	10/07/15 10:18	11/14/15 04:11	1
PCB-1248	ND		1.5	0.21	ug/Kg	☼	10/07/15 10:18	11/14/15 04:11	1
PCB-1254	ND		1.3	0.12	ug/Kg	☼	10/07/15 10:18	11/14/15 04:11	1
PCB-1260	ND		1.3	0.17	ug/Kg	☼	10/07/15 10:18	11/14/15 04:11	1
PCB-1262	ND		1.3	0.25	ug/Kg	☼	10/07/15 10:18	11/14/15 04:11	1
PCB-1268	ND		1.3	0.28	ug/Kg	☼	10/07/15 10:18	11/14/15 04:11	1
Polychlorinated biphenyls, Total	ND		1.5	0.45	ug/Kg	☼	10/07/15 10:18	11/14/15 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*157*	*X*	*50 - 140*	*10/07/15 10:18*	*11/14/15 04:11*	*1*
Tetrachloro-m-xylene	*42*	*X*	*45 - 135*	*10/07/15 10:18*	*11/14/15 04:11*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**12**	**J B**	33	4.7	mg/Kg	☼	10/06/15 14:54	10/07/15 21:46	1
Motor Oil (>C24-C36)	**14**	**J**	65	12	mg/Kg	☼	10/06/15 14:54	10/07/15 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*50 - 150*	*10/06/15 14:54*	*10/07/15 21:46*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		18	18	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Antimony	**0.50**		0.12	0.025	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Arsenic	**7.2**		0.29	0.11	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Barium	**150**		0.29	0.046	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Cadmium	**0.30**		0.12	0.011	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Chromium	**18**		0.29	0.037	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Copper	**23**		0.24	0.058	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Lead	**15**		0.29	0.028	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Magnesium	**6200**		59	1.6	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Nickel	**20**		0.29	0.048	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Silver	**0.13**		0.12	0.0071	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5
Zinc	**81**		2.9	0.66	mg/Kg	☼	10/16/15 06:59	10/16/15 13:29	5

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.024	0.0071	mg/Kg	☼	10/15/15 10:44	10/15/15 14:25	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	220	J	2000	44	mg/Kg			10/14/15 21:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	74		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	26		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Butanone	ND		400	52	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Hexanone	ND		200	36	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acetone	ND		800	170	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acrolein	ND		1200	91	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acrylonitrile	ND		400	96	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Benzene	ND		16	3.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromoform	ND		40	6.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromomethane	ND		140	13	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Carbon disulfide	ND		40	4.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloroethane	ND		400	16	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloroform	ND		40	4.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloromethane	ND		100	10	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Dibromomethane	ND		60	13	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Ethylbenzene	ND		40	2.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Iodomethane	ND		200	6.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Isopropylbenzene	ND		40	2.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Methylene Chloride	139		25	12	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
o-Xylene	ND		40	3.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Styrene	ND		40	2.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
t-Butylbenzene	ND		40	3.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Tetrachloroethene	ND		20	5.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Toluene	ND		40	2.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Trichloroethene	ND		24	3.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg		10/12/15 10:34	10/12/15 12:37	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		200	46	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Vinyl chloride	ND		16	7.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 136*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 120*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 132*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/12/15 10:34*	*10/12/15 12:37*	*1*

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	803	709		ug/Kg		88	72 - 123
1,1,1-Trichloroethane	803	693		ug/Kg		86	63 - 135
1,1,2,2-Tetrachloroethane	801	827		ug/Kg		103	73 - 125
1,1,2-Trichloroethane	802	793		ug/Kg		99	77 - 124
1,1-Dichloroethane	800	724		ug/Kg		91	70 - 128
1,2,3-Trichloropropane	801	838		ug/Kg		105	77 - 123
1,2-Dibromoethane	801	774		ug/Kg		97	69 - 126
1,2-Dichloroethane	801	699		ug/Kg		87	71 - 128
1,2-Dichloropropane	801	724		ug/Kg		90	76 - 161
2-Butanone	3200	3530		ug/Kg		110	30 - 160
2-Chloroethyl vinyl ether	800	841		ug/Kg		105	60 - 150
2-Hexanone	3200	3740		ug/Kg		117	45 - 145
4-Methyl-2-pentanone	3200	3720		ug/Kg		116	45 - 145
Acetone	3200	3760		ug/Kg		118	20 - 160
Acrolein	4750	4470		ug/Kg		94	10 - 125
Acrylonitrile	8010	8270		ug/Kg		103	74 - 117
Benzene	803	741		ug/Kg		92	70 - 128
Bromochloromethane	802	712		ug/Kg		89	78 - 123
Bromodichloromethane	803	676		ug/Kg		84	58 - 133
Bromoform	802	728		ug/Kg		91	50 - 124
Bromomethane	801	563		ug/Kg		70	57 - 148
Carbon disulfide	804	725		ug/Kg		90	45 - 160
Carbon tetrachloride	802	663		ug/Kg		83	59 - 145
Chlorobenzene	803	761		ug/Kg		95	75 - 120
Chlorodibromomethane	801	758		ug/Kg		95	42 - 129
Chloroethane	802	591		ug/Kg		74	48 - 167
Chloroform	800	720		ug/Kg		90	78 - 125
Chloromethane	803	687		ug/Kg		86	55 - 136
cis-1,2-Dichloroethene	801	695		ug/Kg		87	70 - 130
cis-1,3-Dichloropropene	802	762		ug/Kg		95	69 - 129
Dibromomethane	803	762		ug/Kg		95	78 - 126
Dichlorodifluoromethane	802	617		ug/Kg		77	38 - 150
Ethylbenzene	803	773		ug/Kg		96	78 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodomethane	803	716		ug/Kg		89	44 - 148
Isopropylbenzene	801	784		ug/Kg		98	79 - 127
Methyl tert-butyl ether	801	712		ug/Kg		89	65 - 125
Methylene Chloride	804	862		ug/Kg		107	57 - 146
m-Xylene & p-Xylene	802	796		ug/Kg		99	78 - 126
o-Xylene	801	777		ug/Kg		97	77 - 127
Styrene	801	782		ug/Kg		98	79 - 127
t-Butylbenzene	800	814		ug/Kg		102	71 - 136
Tetrachloroethene	802	750		ug/Kg		94	56 - 155
Toluene	801	783		ug/Kg		98	75 - 126
trans-1,2-Dichloroethene	802	667		ug/Kg		83	76 - 131
trans-1,3-Dichloropropene	801	752		ug/Kg		94	72 - 129
trans-1,4-Dichloro-2-butene	800	826		ug/Kg		103	42 - 160
Trichloroethene	802	714		ug/Kg		89	83 - 124
Trichlorofluoromethane	801	702		ug/Kg		88	47 - 165
Vinyl acetate	2000	2080		ug/Kg		104	19 - 144
Vinyl chloride	805	572		ug/Kg		71	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 136*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*
Dibromofluoromethane (Surr)	*96*		*75 - 132*
Toluene-d8 (Surr)	*105*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*65 - 140*

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	803	731		ug/Kg		91	72 - 123	3	20
1,1,1-Trichloroethane	803	677		ug/Kg		84	63 - 135	2	20
1,1,2,2-Tetrachloroethane	801	743		ug/Kg		93	73 - 125	11	22
1,1,2-Trichloroethane	802	769		ug/Kg		96	77 - 124	3	18
1,1-Dichloroethane	800	708		ug/Kg		88	70 - 128	2	21
1,2,3-Trichloropropane	801	735		ug/Kg		92	77 - 123	13	23
1,2-Dibromoethane	801	746		ug/Kg		93	69 - 126	4	21
1,2-Dichloroethane	801	688		ug/Kg		86	71 - 128	2	18
1,2-Dichloropropane	801	702		ug/Kg		88	76 - 161	3	15
2-Butanone	3200	2960		ug/Kg		93	30 - 160	18	30
2-Chloroethyl vinyl ether	800	783		ug/Kg		98	60 - 150	7	30
2-Hexanone	3200	3160		ug/Kg		99	45 - 145	17	30
4-Methyl-2-pentanone	3200	3200		ug/Kg		100	45 - 145	15	30
Acetone	3200	2890		ug/Kg		90	20 - 160	26	30
Acrolein	4750	3790		ug/Kg		80	10 - 125	16	30
Acrylonitrile	8010	7080		ug/Kg		88	74 - 117	16	30
Benzene	803	744		ug/Kg		93	70 - 128	0	19
Bromochloromethane	802	694		ug/Kg		87	78 - 123	3	19

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane			803	672		ug/Kg		84	58 - 133	1	19
Bromoform			802	716		ug/Kg		89	50 - 124	2	25
Bromomethane			801	601		ug/Kg		75	57 - 148	6	29
Carbon disulfide			804	709		ug/Kg		88	45 - 160	2	30
Carbon tetrachloride			802	681		ug/Kg		85	59 - 145	3	19
Chlorobenzene			803	747		ug/Kg		93	75 - 120	2	21
Chlorodibromomethane			801	756		ug/Kg		94	42 - 129	0	23
Chloroethane			802	650		ug/Kg		81	48 - 167	9	53
Chloroform			800	709		ug/Kg		89	78 - 125	2	17
Chloromethane			803	695		ug/Kg		87	55 - 136	1	26
cis-1,2-Dichloroethene			801	671		ug/Kg		84	70 - 130	4	19
cis-1,3-Dichloropropene			802	755		ug/Kg		94	69 - 129	1	19
Dibromomethane			803	731		ug/Kg		91	78 - 126	4	18
Dichlorodifluoromethane			802	593		ug/Kg		74	38 - 150	4	26
Ethylbenzene			803	755		ug/Kg		94	78 - 126	2	23
Iodomethane			803	690		ug/Kg		86	44 - 148	4	30
Isopropylbenzene			801	796		ug/Kg		99	79 - 127	1	20
Methyl tert-butyl ether			801	687		ug/Kg		86	65 - 125	4	30
Methylene Chloride			804	815		ug/Kg		101	57 - 146	6	21
m-Xylene & p-Xylene			802	782		ug/Kg		98	78 - 126	2	23
o-Xylene			801	779		ug/Kg		97	77 - 127	0	22
Styrene			801	780		ug/Kg		97	79 - 127	0	21
t-Butylbenzene			800	818		ug/Kg		102	71 - 136	1	27
Tetrachloroethene			802	747		ug/Kg		93	56 - 155	0	27
Toluene			801	774		ug/Kg		97	75 - 126	1	19
trans-1,2-Dichloroethene			802	681		ug/Kg		85	76 - 131	2	18
trans-1,3-Dichloropropene			801	736		ug/Kg		92	72 - 129	2	20
trans-1,4-Dichloro-2-butene			800	763		ug/Kg		95	42 - 160	8	30
Trichloroethene			802	709		ug/Kg		89	83 - 124	1	17
Trichlorofluoromethane			801	685		ug/Kg		86	47 - 165	2	54
Vinyl acetate			2000	1790		ug/Kg		89	19 - 144	15	30
Vinyl chloride			805	592		ug/Kg		74	67 - 131	3	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 136*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*
Dibromofluoromethane (Surr)	*96*		*75 - 132*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*102*		*65 - 140*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane - RA	ND		40	3.8	ug/Kg		10/12/15 10:34	10/22/15 11:09	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane - RA	ND		40	5.6	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
1,1,2,2-Tetrachloroethane - RA	ND		10	2.3	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
1,1,2-Trichloroethane - RA	ND		12	2.8	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
1,1-Dichloroethane - RA	ND		40	4.2	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
1,2,3-Trichloropropane - RA	ND		40	12	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
1,2-Dibromoethane - RA	ND		16	3.4	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
1,2-Dichloroethane - RA	ND		16	3.3	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
1,2-Dichloropropane - RA	ND		12	2.4	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
2-Butanone - RA	ND		400	52	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
2-Chloroethyl vinyl ether - RA	ND		200	6.2	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
2-Hexanone - RA	ND		200	36	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
4-Methyl-2-pentanone - RA	ND		200	30	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Acetone - RA	ND		800	170	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Acrolein - RA	ND		1200	91	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Acrylonitrile - RA	ND		400	96	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Benzene - RA	ND		16	3.5	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Bromochloromethane - RA	ND		40	4.6	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Bromodichloromethane - RA	ND		40	1.4	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Bromoform - RA	ND		40	6.5	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Bromomethane - RA	ND		140	13	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Carbon disulfide - RA	ND		40	4.4	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Carbon tetrachloride - RA	ND		20	3.8	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Chlorobenzene - RA	ND		40	9.8	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Chlorodibromomethane - RA	ND		20	2.8	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Chloroethane - RA	ND		400	16	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Chloroform - RA	ND		40	4.2	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Chloromethane - RA	ND		100	10	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
cis-1,2-Dichloroethene - RA	ND		40	4.9	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
cis-1,3-Dichloropropene - RA	ND		16	1.8	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Dibromomethane - RA	ND		60	13	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Dichlorodifluoromethane - RA	ND		40	6.5	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Ethylbenzene - RA	ND		40	2.0	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Iodomethane - RA	ND		200	6.3	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Isopropylbenzene - RA	ND		40	2.6	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Methyl tert-butyl ether - RA	ND		40	6.0	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Methylene Chloride - RA	22.8	J	25	12	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
m-Xylene & p-Xylene - RA	ND		40	3.0	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
o-Xylene - RA	ND		40	3.0	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Styrene - RA	ND		40	2.4	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
t-Butylbenzene - RA	ND		40	3.1	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Tetrachloroethene - RA	ND		20	5.3	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Toluene - RA	3.01	J	40	2.6	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
trans-1,2-Dichloroethene - RA	ND		40	3.8	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
trans-1,3-Dichloropropene - RA	ND		40	7.0	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
trans-1,4-Dichloro-2-butene - RA	ND		200	16	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Trichloroethene - RA	ND		24	3.1	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Trichlorofluoromethane - RA	ND		40	5.9	ug/Kg		10/12/15 10:34	10/22/15 11:09	1
Vinyl acetate - RA	ND		200	46	ug/Kg		10/12/15 10:34	10/22/15 11:09	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride - RA	ND		16	7.1	ug/Kg		10/12/15 10:34	10/22/15 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr) - RA	*95*		*71 - 136*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
4-Bromofluorobenzene (Surr) - RA	*100*		*70 - 120*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Dibromofluoromethane (Surr) - RA	*97*		*75 - 132*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Toluene-d8 (Surr) - RA	*103*		*80 - 120*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Trifluorotoluene (Surr) - RA	*96*		*65 - 140*	*10/12/15 10:34*	*10/22/15 11:09*	*1*

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane - RA	803	807		ug/Kg		100	72 - 123
1,1,1-Trichloroethane - RA	803	780		ug/Kg		97	63 - 135
1,1,2,2-Tetrachloroethane - RA	801	853		ug/Kg		107	73 - 125
1,1,2-Trichloroethane - RA	802	785		ug/Kg		98	77 - 124
1,1-Dichloroethane - RA	800	795		ug/Kg		99	70 - 128
1,2,3-Trichloropropane - RA	801	838		ug/Kg		105	77 - 123
1,2-Dibromoethane - RA	801	775		ug/Kg		97	69 - 126
1,2-Dichloroethane - RA	801	776		ug/Kg		97	71 - 128
1,2-Dichloropropane - RA	801	806		ug/Kg		101	76 - 161
2-Butanone - RA	3200	3800		ug/Kg		119	30 - 160
2-Chloroethyl vinyl ether - RA	800	800		ug/Kg		100	60 - 150
2-Hexanone - RA	3200	3580		ug/Kg		112	45 - 145
4-Methyl-2-pentanone - RA	3200	3590		ug/Kg		112	45 - 145
Acetone - RA	3200	3270		ug/Kg		102	20 - 160
Acrolein - RA	4750	3300		ug/Kg		69	10 - 125
Acrylonitrile - RA	8010	8280		ug/Kg		103	74 - 117
Benzene - RA	803	807		ug/Kg		100	70 - 128
Bromochloromethane - RA	802	770		ug/Kg		96	78 - 123
Bromodichloromethane - RA	803	838		ug/Kg		104	58 - 133
Bromoform - RA	802	815		ug/Kg		101	50 - 124
Bromomethane - RA	801	682		ug/Kg		85	57 - 148
Carbon disulfide - RA	804	764		ug/Kg		95	45 - 160
Carbon tetrachloride - RA	802	797		ug/Kg		99	59 - 145
Chlorobenzene - RA	803	808		ug/Kg		101	75 - 120
Chlorodibromomethane - RA	801	817		ug/Kg		102	42 - 129
Chloroethane - RA	802	739		ug/Kg		92	48 - 167
Chloroform - RA	800	786		ug/Kg		98	78 - 125
Chloromethane - RA	803	773		ug/Kg		96	55 - 136
cis-1,2-Dichloroethene - RA	801	773		ug/Kg		96	70 - 130
cis-1,3-Dichloropropene - RA	802	841		ug/Kg		105	69 - 129
Dibromomethane - RA	803	847		ug/Kg		106	78 - 126
Dichlorodifluoromethane - RA	802	651		ug/Kg		81	38 - 150
Ethylbenzene - RA	803	801		ug/Kg		100	78 - 126
Iodomethane - RA	803	789		ug/Kg		98	44 - 148

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene - RA	801	844		ug/Kg		105	79 - 127
Methyl tert-butyl ether - RA	801	824		ug/Kg		103	65 - 125
Methylene Chloride - RA	804	799		ug/Kg		99	57 - 146
m-Xylene & p-Xylene - RA	802	820		ug/Kg		102	78 - 126
o-Xylene - RA	801	824		ug/Kg		103	77 - 127
Styrene - RA	801	876		ug/Kg		109	79 - 127
t-Butylbenzene - RA	800	859		ug/Kg		107	71 - 136
Tetrachloroethene - RA	802	817		ug/Kg		102	56 - 155
Toluene - RA	801	799		ug/Kg		100	75 - 126
trans-1,2-Dichloroethene - RA	802	704		ug/Kg		88	76 - 131
trans-1,3-Dichloropropene - RA	801	834		ug/Kg		104	72 - 129
trans-1,4-Dichloro-2-butene - RA	800	829		ug/Kg		104	42 - 160
Trichloroethene - RA	802	803		ug/Kg		100	83 - 124
Trichlorofluoromethane - RA	801	766		ug/Kg		96	47 - 165
Vinyl acetate - RA	2000	1430		ug/Kg		71	19 - 144
Vinyl chloride - RA	805	721		ug/Kg		90	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - RA	*97*		*71 - 136*
4-Bromofluorobenzene (Surr) - RA	*100*		*70 - 120*
Dibromofluoromethane (Surr) - RA	*100*		*75 - 132*
Toluene-d8 (Surr) - RA	*100*		*80 - 120*
Trifluorotoluene (Surr) - RA	*98*		*65 - 140*

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane - RA	803	822		ug/Kg		102	72 - 123	2	20
1,1,1-Trichloroethane - RA	803	769		ug/Kg		96	63 - 135	1	20
1,1,2,2-Tetrachloroethane - RA	801	865		ug/Kg		108	73 - 125	1	22
1,1,2-Trichloroethane - RA	802	805		ug/Kg		100	77 - 124	2	18
1,1-Dichloroethane - RA	800	786		ug/Kg		98	70 - 128	1	21
1,2,3-Trichloropropane - RA	801	854		ug/Kg		107	77 - 123	2	23
1,2-Dibromoethane - RA	801	814		ug/Kg		102	69 - 126	5	21
1,2-Dichloroethane - RA	801	765		ug/Kg		96	71 - 128	1	18
1,2-Dichloropropane - RA	801	801		ug/Kg		100	76 - 161	1	15
2-Butanone - RA	3200	3740		ug/Kg		117	30 - 160	1	30
2-Chloroethyl vinyl ether - RA	800	834		ug/Kg		104	60 - 150	4	30
2-Hexanone - RA	3200	3670		ug/Kg		115	45 - 145	2	30
4-Methyl-2-pentanone - RA	3200	3660		ug/Kg		114	45 - 145	2	30
Acetone - RA	3200	3470		ug/Kg		109	20 - 160	6	30
Acrolein - RA	4750	2690		ug/Kg		57	10 - 125	20	30
Acrylonitrile - RA	8010	8240		ug/Kg		103	74 - 117	1	30
Benzene - RA	803	803		ug/Kg		100	70 - 128	0	19

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromochloromethane - RA			802	785		ug/Kg		98	78 - 123	2	19
Bromodichloromethane - RA			803	815		ug/Kg		102	58 - 133	3	19
Bromoform - RA			802	841		ug/Kg		105	50 - 124	3	25
Bromomethane - RA			801	705		ug/Kg		88	57 - 148	3	29
Carbon disulfide - RA			804	746		ug/Kg		93	45 - 160	2	30
Carbon tetrachloride - RA			802	799		ug/Kg		100	59 - 145	0	19
Chlorobenzene - RA			803	823		ug/Kg		102	75 - 120	2	21
Chlorodibromomethane - RA			801	876		ug/Kg		109	42 - 129	7	23
Chloroethane - RA			802	712		ug/Kg		89	48 - 167	4	53
Chloroform - RA			800	782		ug/Kg		98	78 - 125	1	17
Chloromethane - RA			803	761		ug/Kg		95	55 - 136	2	26
cis-1,2-Dichloroethene - RA			801	798		ug/Kg		100	70 - 130	3	19
cis-1,3-Dichloropropene - RA			802	852		ug/Kg		106	69 - 129	1	19
Dibromomethane - RA			803	827		ug/Kg		103	78 - 126	2	18
Dichlorodifluoromethane - RA			802	608		ug/Kg		76	38 - 150	7	26
Ethylbenzene - RA			803	829		ug/Kg		103	78 - 126	3	23
Iodomethane - RA			803	772		ug/Kg		96	44 - 148	2	30
Isopropylbenzene - RA			801	855		ug/Kg		107	79 - 127	1	20
Methyl tert-butyl ether - RA			801	825		ug/Kg		103	65 - 125	0	30
Methylene Chloride - RA			804	789		ug/Kg		98	57 - 146	1	21
m-Xylene & p-Xylene - RA			802	829		ug/Kg		103	78 - 126	1	23
o-Xylene - RA			801	848		ug/Kg		106	77 - 127	3	22
Styrene - RA			801	895		ug/Kg		112	79 - 127	2	21
t-Butylbenzene - RA			800	845		ug/Kg		106	71 - 136	2	27
Tetrachloroethene - RA			802	837		ug/Kg		104	56 - 155	3	27
Toluene - RA			801	816		ug/Kg		102	75 - 126	2	19
trans-1,2-Dichloroethene - RA			802	736		ug/Kg		92	76 - 131	4	18
trans-1,3-Dichloropropene - RA			801	853		ug/Kg		106	72 - 129	2	20
trans-1,4-Dichloro-2-butene - RA			800	831		ug/Kg		104	42 - 160	0	30
Trichloroethene - RA			802	819		ug/Kg		102	83 - 124	2	17
Trichlorofluoromethane - RA			801	754		ug/Kg		94	47 - 165	2	54
Vinyl acetate - RA			2000	1140		ug/Kg		57	19 - 144	23	30
Vinyl chloride - RA			805	702		ug/Kg		87	67 - 131	3	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - RA	*98*		*71 - 136*
4-Bromofluorobenzene (Surr) - RA	*101*		*70 - 120*
Dibromofluoromethane (Surr) - RA	*99*		*75 - 132*
Toluene-d8 (Surr) - RA	*101*		*80 - 120*
Trifluorotoluene (Surr) - RA	*99*		*65 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-202635/1-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Diethyl phthalate	19.9	J	20	1.5	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Fluorene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Anthracene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Pyrene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Butyl benzyl phthalate	9.80	J	20	5.0	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Chrysene	ND		2.5	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Bis(2-ethylhexyl) phthalate	34.0	J	60	5.0	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/07/15 10:28	10/20/15 23:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*96*		*42 - 151*	*10/07/15 10:28*	*10/20/15 23:02*	*1*

Lab Sample ID: LCS 580-202635/2-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	100	69.0		ug/Kg		69	62 - 112
2-Methylnaphthalene	100	75.1		ug/Kg		75	64 - 119
Dimethyl phthalate	100	82.2		ug/Kg		82	78 - 117
Acenaphthylene	100	77.0		ug/Kg		77	68 - 120
Acenaphthene	100	71.6		ug/Kg		72	68 - 116
Diethyl phthalate	100	92.6		ug/Kg		93	73 - 116
Fluorene	100	78.6		ug/Kg		79	70 - 121
Phenanthrene	100	75.2		ug/Kg		75	73 - 106
Anthracene	100	87.0		ug/Kg		87	73 - 116
Di-n-butyl phthalate	100	107		ug/Kg		107	66 - 140
Fluoranthene	100	90.5		ug/Kg		91	73 - 125
Pyrene	100	85.5		ug/Kg		86	70 - 120
Butyl benzyl phthalate	100	108		ug/Kg		108	69 - 142
Benzo[a]anthracene	100	87.3		ug/Kg		87	76 - 119
Chrysene	100	83.4		ug/Kg		83	75 - 114
Bis(2-ethylhexyl) phthalate	100	126		ug/Kg		126	62 - 144

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-202635/2-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202635

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Di-n-octyl phthalate			100	107		ug/Kg		107	65 - 141		
Benzo[b]fluoranthene			100	90.3		ug/Kg		90	63 - 132		
Benzo[k]fluoranthene			100	89.9		ug/Kg		90	63 - 119		
Benzo[a]pyrene			100	86.1		ug/Kg		86	72 - 117		
Indeno[1,2,3-cd]pyrene			100	84.6		ug/Kg		85	56 - 127		
Dibenz(a,h)anthracene			100	84.2		ug/Kg		84	56 - 134		
Benzo[g,h,i]perylene			100	92.1		ug/Kg		92	55 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*93*		*42 - 151*

Lab Sample ID: LCSD 580-202635/3-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202635

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			100	70.6		ug/Kg		71	62 - 112	2	26
2-Methylnaphthalene			100	78.1		ug/Kg		78	64 - 119	4	27
Dimethyl phthalate			100	83.7		ug/Kg		84	78 - 117	2	30
Acenaphthylene			100	78.5		ug/Kg		78	68 - 120	2	28
Acenaphthene			100	73.0		ug/Kg		73	68 - 116	2	27
Diethyl phthalate			100	98.7		ug/Kg		99	73 - 116	6	26
Fluorene			100	80.8		ug/Kg		81	70 - 121	3	30
Phenanthrene			100	74.9		ug/Kg		75	73 - 106	0	28
Anthracene			100	85.6		ug/Kg		86	73 - 116	2	27
Di-n-butyl phthalate			100	109		ug/Kg		109	66 - 140	2	30
Fluoranthene			100	93.5		ug/Kg		94	73 - 125	3	30
Pyrene			100	87.1		ug/Kg		87	70 - 120	2	30
Butyl benzyl phthalate			100	118		ug/Kg		118	69 - 142	9	30
Benzo[a]anthracene			100	88.8		ug/Kg		89	76 - 119	2	27
Chrysene			100	82.0		ug/Kg		82	75 - 114	2	26
Bis(2-ethylhexyl) phthalate			100	127		ug/Kg		127	62 - 144	0	30
Di-n-octyl phthalate			100	111		ug/Kg		111	65 - 141	4	30
Benzo[b]fluoranthene			100	87.2		ug/Kg		87	63 - 132	4	30
Benzo[k]fluoranthene			100	98.6		ug/Kg		99	63 - 119	9	30
Benzo[a]pyrene			100	85.0		ug/Kg		85	72 - 117	1	30
Indeno[1,2,3-cd]pyrene			100	88.2		ug/Kg		88	56 - 127	4	29
Dibenz(a,h)anthracene			100	91.3		ug/Kg		91	56 - 134	8	30
Benzo[g,h,i]perylene			100	95.2		ug/Kg		95	55 - 139	3	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*94*		*42 - 151*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-53840-1 MS
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: MW-4-24
Prep Type: Total/NA
Prep Batch: 202635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		113	71.6		ug/Kg	☼	63	62 - 112
2-Methylnaphthalene	ND		113	77.5		ug/Kg	☼	68	64 - 119
Dimethyl phthalate	ND	F1	113	85.1	F1	ug/Kg	☼	75	78 - 117
Acenaphthylene	ND		113	79.6		ug/Kg	☼	70	68 - 120
Acenaphthene	ND	F1	113	74.8	F1	ug/Kg	☼	66	68 - 116
Diethyl phthalate	15	J F1 B	113	93.8	F1	ug/Kg	☼	70	73 - 116
Fluorene	ND		113	83.6		ug/Kg	☼	74	70 - 121
Phenanthrene	ND	F1	113	77.7	F1	ug/Kg	☼	68	73 - 106
Anthracene	ND		113	92.1		ug/Kg	☼	81	73 - 116
Di-n-butyl phthalate	11	J	113	116		ug/Kg	☼	93	66 - 140
Fluoranthene	ND		113	99.8		ug/Kg	☼	88	73 - 125
Pyrene	ND		113	93.4		ug/Kg	☼	82	70 - 120
Butyl benzyl phthalate	19	J B	113	123		ug/Kg	☼	91	69 - 142
Benzo[a]anthracene	ND		113	92.1		ug/Kg	☼	81	76 - 119
Chrysene	ND	F1	113	83.9	F1	ug/Kg	☼	74	75 - 114
Bis(2-ethylhexyl) phthalate	40	J B	113	146		ug/Kg	☼	93	62 - 144
Di-n-octyl phthalate	14	J F1	113	182	F1	ug/Kg	☼	149	65 - 141
Benzo[b]fluoranthene	ND		113	115		ug/Kg	☼	102	63 - 132
Benzo[k]fluoranthene	ND		113	117		ug/Kg	☼	104	63 - 119
Benzo[a]pyrene	ND		113	94.1		ug/Kg	☼	83	72 - 117
Indeno[1,2,3-cd]pyrene	ND	F1	113	43.5	F1	ug/Kg	☼	38	56 - 127
Dibenz(a,h)anthracene	ND	F1	113	44.2	F1	ug/Kg	☼	39	56 - 134
Benzo[g,h,i]perylene	ND	F1	113	37.7	F1	ug/Kg	☼	33	55 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*91*		*42 - 151*

Lab Sample ID: 580-53840-1 MSD
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: MW-4-24
Prep Type: Total/NA
Prep Batch: 202635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		114	72.9		ug/Kg	☼	64	62 - 112	2	26
2-Methylnaphthalene	ND		114	77.8		ug/Kg	☼	68	64 - 119	0	27
Dimethyl phthalate	ND	F1	114	86.0	F1	ug/Kg	☼	76	78 - 117	1	60
Acenaphthylene	ND		114	81.0		ug/Kg	☼	71	68 - 120	2	28
Acenaphthene	ND	F1	114	76.0	F1	ug/Kg	☼	67	68 - 116	2	27
Diethyl phthalate	15	J F1 B	114	97.9		ug/Kg	☼	73	73 - 116	4	26
Fluorene	ND		114	83.5		ug/Kg	☼	73	70 - 121	0	31
Phenanthrene	ND	F1	114	75.7	F1	ug/Kg	☼	66	73 - 106	3	28
Anthracene	ND		114	88.0		ug/Kg	☼	77	73 - 116	5	27
Di-n-butyl phthalate	11	J	114	113		ug/Kg	☼	90	66 - 140	3	60
Fluoranthene	ND		114	97.7		ug/Kg	☼	86	73 - 125	2	36
Pyrene	ND		114	92.8		ug/Kg	☼	81	70 - 120	1	31
Butyl benzyl phthalate	19	J B	114	114		ug/Kg	☼	83	69 - 142	7	60
Benzo[a]anthracene	ND		114	93.1		ug/Kg	☼	82	76 - 119	1	27
Chrysene	ND	F1	114	83.9	F1	ug/Kg	☼	74	75 - 114	0	26
Bis(2-ethylhexyl) phthalate	40	J B	114	144		ug/Kg	☼	91	62 - 144	2	60

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-53840-1 MSD
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: MW-4-24
Prep Type: Total/NA
Prep Batch: 202635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-octyl phthalate	14	J F1	114	183	F1	ug/Kg	☼	148	65 - 141	0	31
Benzo[b]fluoranthene	ND		114	109		ug/Kg	☼	96	63 - 132	5	31
Benzo[k]fluoranthene	ND		114	123		ug/Kg	☼	108	63 - 119	5	31
Benzo[a]pyrene	ND		114	95.3		ug/Kg	☼	84	72 - 117	1	30
Indeno[1,2,3-cd]pyrene	ND	F1	114	43.1	F1	ug/Kg	☼	38	56 - 127	1	29
Dibenz(a,h)anthracene	ND	F1	114	47.7	F1	ug/Kg	☼	42	56 - 134	7	30
Benzo[g,h,i]perylene	ND	F1	114	39.2	F1	ug/Kg	☼	34	55 - 139	4	28

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*88*		*42 - 151*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-202807/1-A
Matrix: Solid
Analysis Batch: 202828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202807

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.50	mg/Kg		10/08/15 14:09	10/08/15 15:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*	*10/08/15 14:09*	*10/08/15 15:41*	*1*

Lab Sample ID: LCS 580-202807/2-A
Matrix: Solid
Analysis Batch: 202828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202807

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			40.0	36.1		mg/Kg		90	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*

Lab Sample ID: LCSD 580-202807/3-A
Matrix: Solid
Analysis Batch: 202828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202807

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	37.6		mg/Kg		94	68 - 120	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 580-202634/1-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.20	0.030	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
2,4'-DDE	ND		0.20	0.030	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
2,4'-DDT	ND		0.20	0.016	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
4,4'-DDD	0.0711	J	0.20	0.0074	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
4,4'-DDT	0.0589	J	0.20	0.015	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Aldrin	ND		0.10	0.012	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
alpha-BHC	0.0937	J	0.10	0.028	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
beta-BHC	0.172		0.10	0.011	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Chlordane (technical)	0.174	J	1.0	0.14	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
cis-Nonachlor	0.0292	J	0.20	0.019	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
delta-BHC	0.125		0.10	0.015	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Dieldrin	0.0256	J	0.20	0.012	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endosulfan II	ND		0.20	0.011	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endosulfan sulfate	0.00577	J	0.20	0.0046	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endrin	0.0505	J	0.20	0.0094	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endrin aldehyde	0.0434	J	0.20	0.020	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Endrin ketone	0.196	J	0.20	0.012	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
gamma-BHC (Lindane)	0.0165	J	0.10	0.0071	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Heptachlor	0.0472	J	0.20	0.015	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Heptachlor epoxide	ND		0.10	0.0039	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Methoxychlor	0.0871	J	1.0	0.013	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
oxy-Chlordane	0.193	J	0.20	0.030	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
Toxaphene	8.70	J	10	0.78	ug/Kg		10/07/15 10:18	11/13/15 19:31	1
trans-Nonachlor	0.553		0.20	0.030	ug/Kg		10/07/15 10:18	11/13/15 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*141*	*X*	*60 - 128*	*10/07/15 10:18*	*11/13/15 19:31*	*1*
Tetrachloro-m-xylene	*83*		*35 - 129*	*10/07/15 10:18*	*11/13/15 19:31*	*1*

Lab Sample ID: LCS 580-202634/4-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	2.50	3.03		ug/Kg		121	48 - 136
4,4'-DDE	2.50	2.87		ug/Kg		115	50 - 138
4,4'-DDT	2.50	3.17		ug/Kg		127	53 - 132
Aldrin	2.50	2.81		ug/Kg		113	59 - 127
alpha-BHC	2.50	2.50		ug/Kg		100	48 - 132
alpha-Chlordane	2.50	3.05		ug/Kg		122	52 - 137
beta-BHC	2.50	2.96		ug/Kg		118	45 - 122
delta-BHC	2.50	2.92		ug/Kg		117	27 - 124
Dieldrin	2.50	3.14		ug/Kg		126	53 - 145
Endosulfan I	2.50	3.06		ug/Kg		122	57 - 140

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 580-202634/4-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan II	2.50	3.05		ug/Kg		122	58 - 144
Endosulfan sulfate	2.50	3.25	*	ug/Kg		130	55 - 125
Endrin	2.50	3.54		ug/Kg		141	51 - 143
Endrin aldehyde	2.50	2.40		ug/Kg		96	45 - 130
Endrin ketone	2.50	3.19		ug/Kg		127	53 - 139
gamma-BHC (Lindane)	2.50	2.87		ug/Kg		115	47 - 127
gamma-Chlordane	2.50	3.21		ug/Kg		128	52 - 137
Heptachlor	2.50	2.97		ug/Kg		119	43 - 141
Heptachlor epoxide	2.50	3.28		ug/Kg		131	47 - 143
Methoxychlor	2.50	3.51	*	ug/Kg		140	56 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*115*		*60 - 128*
Tetrachloro-m-xylene	*95*		*35 - 129*

Lab Sample ID: LCS 580-202634/6-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	25.0	18.2		ug/Kg		73	48 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*125*		*60 - 128*
Tetrachloro-m-xylene	*50*		*35 - 129*

Lab Sample ID: LCS 580-202634/8-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlordane (technical)	12.5	17.5	*	ug/Kg		140	45 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*105*		*60 - 128*
Tetrachloro-m-xylene	*89*		*35 - 129*

Lab Sample ID: LCSD 580-202634/5-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	2.50	3.14		ug/Kg		125	48 - 136	3	18
4,4'-DDE	2.50	3.15		ug/Kg		126	50 - 138	9	17
4,4'-DDT	2.50	3.38	*	ug/Kg		135	53 - 132	6	20
Aldrin	2.50	2.91		ug/Kg		117	59 - 127	3	19
alpha-BHC	2.50	2.64		ug/Kg		105	48 - 132	5	17

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 580-202634/5-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202634

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-Chlordane			2.50	3.05		ug/Kg		122	52 - 137	0	17
beta-BHC			2.50	2.96		ug/Kg		118	45 - 122	0	18
delta-BHC			2.50	2.93		ug/Kg		117	27 - 124	1	19
Dieldrin			2.50	3.10		ug/Kg		124	53 - 145	1	18
Endosulfan I			2.50	3.03		ug/Kg		121	57 - 140	1	19
Endosulfan II			2.50	3.08		ug/Kg		123	58 - 144	1	19
Endosulfan sulfate			2.50	3.52	*	ug/Kg		141	55 - 125	8	18
Endrin			2.50	3.67	*	ug/Kg		147	51 - 143	4	18
Endrin aldehyde			2.50	2.50		ug/Kg		100	45 - 130	4	21
Endrin ketone			2.50	3.79	*	ug/Kg		152	53 - 139	17	17
gamma-BHC (Lindane)			2.50	2.99		ug/Kg		120	47 - 127	4	17
gamma-Chlordane			2.50	3.25		ug/Kg		130	52 - 137	1	17
Heptachlor			2.50	2.96		ug/Kg		118	43 - 141	0	18
Heptachlor epoxide			2.50	3.33		ug/Kg		133	47 - 143	2	17
Methoxychlor			2.50	3.90	*	ug/Kg		156	56 - 137	11	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*117*		*60 - 128*
Tetrachloro-m-xylene	*76*		*35 - 129*

Lab Sample ID: LCSD 580-202634/7-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202634

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene			25.0	32.2	*	ug/Kg		129	48 - 141	56	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*109*		*60 - 128*
Tetrachloro-m-xylene	*75*		*35 - 129*

Lab Sample ID: LCSD 580-202634/9-A
Matrix: Solid
Analysis Batch: 205593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202634

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane (technical)			12.5	17.3	*	ug/Kg		139	45 - 131	5	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*111*		*60 - 128*
Tetrachloro-m-xylene	*73*		*35 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-202634/1-A
Matrix: Solid
Analysis Batch: 205612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.050	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1221	ND		1.1	0.34	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1232	ND		1.1	0.22	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1242	ND		1.0	0.21	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1248	ND		1.1	0.16	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1254	ND		1.0	0.090	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1260	ND		1.0	0.13	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1262	ND		1.0	0.19	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
PCB-1268	ND		1.0	0.21	ug/Kg		10/07/15 10:18	11/14/15 00:00	1
Polychlorinated biphenyls, Total	ND		1.1	0.34	ug/Kg		10/07/15 10:18	11/14/15 00:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*50 - 140*	*10/07/15 10:18*	*11/14/15 00:00*	*1*
Tetrachloro-m-xylene	*44*	*X*	*45 - 135*	*10/07/15 10:18*	*11/14/15 00:00*	*1*

Lab Sample ID: LCS 580-202634/2-A
Matrix: Solid
Analysis Batch: 205612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	12.5	7.87		ug/Kg		63	40 - 140
PCB-1260	12.5	10.1		ug/Kg		81	60 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*97*		*50 - 140*
Tetrachloro-m-xylene	*33*	*X*	*45 - 135*

Lab Sample ID: LCSD 580-202634/3-A
Matrix: Solid
Analysis Batch: 205612

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202634

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	12.5	7.95		ug/Kg		64	40 - 140	1	20
PCB-1260	12.5	8.33		ug/Kg		67	60 - 130	19	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*77*		*50 - 140*
Tetrachloro-m-xylene	*50*		*45 - 135*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-202582/1-A
Matrix: Solid
Analysis Batch: 202652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	5.03	J	25	3.6	mg/Kg		10/06/15 14:54	10/07/15 17:02	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-202582/1-A
Matrix: Solid
Analysis Batch: 202652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		10/06/15 14:54	10/07/15 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*10/06/15 14:54*	*10/07/15 17:02*	*1*

Lab Sample ID: LCS 580-202582/2-A
Matrix: Solid
Analysis Batch: 202652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	500	382		mg/Kg		76	70 - 125
Motor Oil (>C24-C36)	502	402		mg/Kg		80	64 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*75*		*50 - 150*

Lab Sample ID: LCSD 580-202582/3-A
Matrix: Solid
Analysis Batch: 202652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	500	382		mg/Kg		76	70 - 125	0	16
Motor Oil (>C24-C36)	502	407		mg/Kg		81	64 - 127	1	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*76*		*50 - 150*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-203524/15-A
Matrix: Solid
Analysis Batch: 203676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		15	15	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Antimony	ND		0.10	0.021	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Arsenic	ND		0.25	0.090	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Barium	ND		0.25	0.039	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Cadmium	ND		0.10	0.0095	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Chromium	ND		0.25	0.032	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Copper	ND		0.20	0.049	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Lead	ND		0.25	0.024	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Magnesium	ND		50	1.3	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Nickel	ND		0.25	0.041	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Silver	ND		0.10	0.0060	mg/Kg		10/16/15 06:59	10/16/15 12:13	5
Zinc	ND		2.5	0.56	mg/Kg		10/16/15 06:59	10/16/15 12:13	5

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-203524/16-A
Matrix: Solid
Analysis Batch: 203676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	500	514		mg/Kg		103	80 - 120
Antimony	150	156		mg/Kg		104	80 - 120
Arsenic	200	208		mg/Kg		104	80 - 120
Barium	200	209		mg/Kg		105	80 - 120
Cadmium	5.00	5.35		mg/Kg		107	80 - 120
Chromium	20.0	20.5		mg/Kg		102	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Lead	50.0	49.2		mg/Kg		98	80 - 120
Magnesium	1000	1020		mg/Kg		102	80 - 120
Nickel	50.0	52.6		mg/Kg		105	80 - 120
Silver	30.0	27.3		mg/Kg		91	80 - 120
Zinc	200	208		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 580-203524/17-A
Matrix: Solid
Analysis Batch: 203676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	500	498		mg/Kg		100	80 - 120	3	20
Antimony	150	154		mg/Kg		103	80 - 120	1	20
Arsenic	200	205		mg/Kg		103	80 - 120	1	20
Barium	200	208		mg/Kg		104	80 - 120	1	20
Cadmium	5.00	5.21		mg/Kg		104	80 - 120	3	20
Chromium	20.0	19.6		mg/Kg		98	80 - 120	4	20
Copper	25.0	25.1		mg/Kg		100	80 - 120	1	20
Lead	50.0	48.7		mg/Kg		97	80 - 120	1	20
Magnesium	1000	986		mg/Kg		99	80 - 120	4	20
Nickel	50.0	52.4		mg/Kg		105	80 - 120	0	20
Silver	30.0	27.1		mg/Kg		90	80 - 120	1	20
Zinc	200	204		mg/Kg		102	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-203447/21-A
Matrix: Solid
Analysis Batch: 203496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0060	mg/Kg		10/15/15 10:44	10/15/15 13:44	1

Lab Sample ID: LCS 580-203447/22-A
Matrix: Solid
Analysis Batch: 203496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-203447/23-A
Matrix: Solid
Analysis Batch: 203496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203447

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.159		mg/Kg		95	80 - 120	3	20

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-203474/3
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			10/14/15 19:35	1

Lab Sample ID: LCS 580-203474/4
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	4620	4470		mg/Kg		97	49 - 151

Lab Sample ID: LCSD 580-203474/5
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	4620	4080		mg/Kg		88	49 - 151	9	35

Method: D 2216 - Percent Moisture

Lab Sample ID: 580-53840-1 DU
Matrix: Solid
Analysis Batch: 202729

Client Sample ID: MW-4-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	88		88		%		0.3	20
Percent Moisture	12		12		%		2	20

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Client Sample ID: MW-4-24
Date Collected: 10/01/15 11:10
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202931	10/09/15 15:44	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 21:04	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-4-24
Date Collected: 10/01/15 11:10
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-1
Matrix: Solid
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	203054	10/12/15 22:08	K1K	TAL SEA
Total/NA	Prep	5035	RA		203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C	RA	1	204000	10/22/15 18:17	JMB	TAL SEA
Total/NA	Prep	3550B			202635	10/07/15 10:28	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 04:07	AHP	TAL SEA
Total/NA	Prep	5035			202807	10/08/15 14:09	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202828	10/08/15 17:21	D1R	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8081B		2	206760	12/02/15 00:09	DCV	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8082A		1	205612	11/14/15 03:04	NMI	TAL SEA
Total/NA	Prep	3546			202582	10/06/15 14:54	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/07/15 20:30	NMI	TAL SEA
Total/NA	Prep	3050B			203524	10/16/15 06:59	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203676	10/16/15 13:12	FCW	TAL SEA
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 14:23	FCW	TAL SEA

Client Sample ID: MW-8-4
Date Collected: 10/01/15 13:15
Date Received: 10/01/15 16:40

Lab Sample ID: 580-53840-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 21:08	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-8-4

Lab Sample ID: 580-53840-2

Date Collected: 10/01/15 13:15

Matrix: Solid

Date Received: 10/01/15 16:40

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	203054	10/12/15 22:41	K1K	TAL SEA
Total/NA	Prep	5035	RA		203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C	RA	1	204000	10/22/15 18:50	JMB	TAL SEA
Total/NA	Prep	3550B			202635	10/07/15 10:28	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 05:23	AHP	TAL SEA
Total/NA	Prep	5035			202807	10/08/15 14:09	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202828	10/08/15 17:53	D1R	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8081B		2	206760	12/02/15 00:26	DCV	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8082A		1	205612	11/14/15 03:21	NMI	TAL SEA
Total/NA	Prep	3546			202582	10/06/15 14:54	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/07/15 20:49	NMI	TAL SEA
Total/NA	Prep	3050B			203524	10/16/15 06:59	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203676	10/16/15 13:16	FCW	TAL SEA
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 14:28	FCW	TAL SEA

Client Sample ID: MW-8-24

Lab Sample ID: 580-53840-3

Date Collected: 10/01/15 13:55

Matrix: Solid

Date Received: 10/01/15 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 21:19	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-8-24

Lab Sample ID: 580-53840-3

Date Collected: 10/01/15 13:55

Matrix: Solid

Date Received: 10/01/15 16:40

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	204000	10/22/15 19:23	JMB	TAL SEA
Total/NA	Prep	3550B			202635	10/07/15 10:28	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 05:49	AHP	TAL SEA
Total/NA	Prep	5035			202807	10/08/15 14:09	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202828	10/08/15 18:27	D1R	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8081B		1	206760	12/02/15 00:43	DCV	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8082A		1	205612	11/14/15 03:37	NMI	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Client Sample ID: MW-8-24

Lab Sample ID: 580-53840-3
Date Collected: 10/01/15 13:55
Matrix: Solid
Date Received: 10/01/15 16:40
Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			202582	10/06/15 14:54	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/07/15 21:08	NMI	TAL SEA
Total/NA	Prep	3050B			203524	10/16/15 06:59	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203676	10/16/15 13:21	FCW	TAL SEA
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 14:30	FCW	TAL SEA

Client Sample ID: BG-3-4

Lab Sample ID: 580-53840-4
Date Collected: 10/01/15 14:50
Matrix: Solid
Date Received: 10/01/15 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 21:24	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: BG-3-4

Lab Sample ID: 580-53840-4
Date Collected: 10/01/15 14:50
Matrix: Solid
Date Received: 10/01/15 16:40
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	204000	10/22/15 19:55	JMB	TAL SEA
Total/NA	Prep	3550B			202635	10/07/15 10:28	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 06:14	AHP	TAL SEA
Total/NA	Prep	3550B	DL		202635	10/07/15 10:28	DCV	TAL SEA
Total/NA	Analysis	8270D	DL	10	204188	10/25/15 13:53	AHP	TAL SEA
Total/NA	Prep	5035			202807	10/08/15 14:09	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202828	10/08/15 19:00	D1R	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8081B		5	206760	12/02/15 01:00	DCV	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8082A		1	206011	11/18/15 21:24	DCV	TAL SEA
Total/NA	Prep	3546			202582	10/06/15 14:54	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/07/15 21:27	NMI	TAL SEA
Total/NA	Prep	3050B			203524	10/16/15 06:59	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203676	10/16/15 13:25	FCW	TAL SEA
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		10	203496	10/15/15 14:56	FCW	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Client Sample ID: BG-3-22.8

Lab Sample ID: 580-53840-5

Date Collected: 10/01/15 15:45
Date Received: 10/01/15 16:40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 21:29	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: BG-3-22.8

Lab Sample ID: 580-53840-5

Date Collected: 10/01/15 15:45
Date Received: 10/01/15 16:40

Matrix: Solid
Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			202635	10/07/15 10:29	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 06:39	AHP	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8081B		1	206760	12/02/15 01:17	DCV	TAL SEA
Total/NA	Prep	3550B			202634	10/07/15 10:18	DCV	TAL SEA
Total/NA	Analysis	8082A		1	205612	11/14/15 04:11	NMI	TAL SEA
Total/NA	Prep	3546			202582	10/06/15 14:54	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/07/15 21:46	NMI	TAL SEA
Total/NA	Prep	3050B			203524	10/16/15 06:59	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203676	10/16/15 13:29	FCW	TAL SEA
Total/NA	Prep	7471A			203447	10/15/15 10:44	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 14:25	FCW	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	02-28-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: GeoPro Geologic Services
Project/Site: JSCS - NW Portland, Oregon

TestAmerica Job ID: 580-53840-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-53840-1	MW-4-24	Solid	10/01/15 11:10	10/01/15 16:40
580-53840-2	MW-8-4	Solid	10/01/15 13:15	10/01/15 16:40
580-53840-3	MW-8-24	Solid	10/01/15 13:55	10/01/15 16:40
580-53840-4	BG-3-4	Solid	10/01/15 14:50	10/01/15 16:40
580-53840-5	BG-3-22.8	Solid	10/01/15 15:45	10/01/15 16:40

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580-53840 Chain of Custody

☐ Rush

☐ Short Hold

Soil

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
GeoPro LLC	Richard Kent	10-1-15	23689
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
PO Box 26	360-907-5648		
City / State / Zip Code	**Sampler**	**Lab Contact**	
Battleground / WA / 98604	Geo Pro	Robert Greer	
Project Name and Location (State)	**Billing Contact**		
Oseran Properties			
Contract/Purchase Order/Quote No.			
ECSI #1007			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8260C-LL	NWTPH-Dx	8081B	8015C	9056-PSEP	8082A	7471A	8270D (Mod)	8260C (Mod)	8260C (Voa)	NWTPH-Gx/MS	Special Instructions/ Conditions of Receipt
MW-4-24	10-1-15	1110				X							X	X	X	X	X	X	X	X	X	X	X	4 Containers
MW-8-4	10-1-15	1315				X							X	X	X	X	X	X	X	X	X	X	X	3 " " *
MW-8-24	10-1-15	1355				X							X	X	X	X	X	X	X	X	X	X	X	4 " "
BG-3-4	10-1-15	1450				X							X	X	X	X	X	X	X	X	X	X	X	3 " " *
BG-3-22.8	10-1-15	1545				X							X	X	X	X	X	X	X	X				4 " "
MW-8-9-A	10-1-15	1333				X																		2 " " **

* Not enough sample for (2) 8oz jars

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☒ Yes ☐ No Cooler Temp: _____	☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	

Turn Around Time Required (business days)

☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Normal

QC Requirements (Specify) 38, 58 R/P-L

	Sign/Print	Date	Time
1. Relinquished By	Richard Kent	10-1-15	1602
2. Relinquished By	Jessica Morgan	10/1/15	1640
3. Relinquished By			
1. Received By	Jessica Morgan	10/1/15	1602
2. Received By		10/1/15	1640
3. Received By			

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☒ Short Hold

Archive

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
GeoPro LLC	Richard Kent	10-1-15	23691
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
PO Box 26	360-907-5648		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Battleground / WA / 98604	GeoPro	Robert Greer	
Project Name and Location (State)	**Billing Contact**		
Oscran Properties			
Contract/Purchase Order/Quote No.			
ECSI # 1007			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
MW-4-9-A	10-1-15	1050				X								2 Containers
MW-4-14-A	10-1-15	1055				X								2 " "
MW-4-18-A	10-1-15	1120				X								2 " "
MW-8-9-A	10-1-15	1333				X								2 " "
MW-8-14-A	10-1-15	1335				X								
MW-8-19 A	10-1-15	1405				X								2 " "
BG-3-9-A	10-1-15	1510				X								2 " "
BG-3-14-A	10-1-15	1515				X								2 " "
BG-3-17-A	10-1-15	1600				X								2 " "

Cooler	Possible Hazard Identification	Sample Disposal	
☒ Yes ☐ No Cooler Temp: _____	☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client	☐ Disposal By Lab ☒ Archive For 1 Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Normal

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	Richard Kent	10-1-15	1602	Jessica Morgan	10/1/15	1602
2.	Jessica Morgan	10/1/15	1640		10/1/15	1640
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: GeoPro Geologic Services

Job Number: 580-53840-1

Login Number: 53840
List Number: 1
Creator: Gonzales, Steve

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-53787-1
Client Project/Site: Osearan Properties

For:
GeoPro Geologic Services
PO BOX 26
Battle Ground, Washington 98604

Attn: Richard Kent

Authorized for release by:
12/4/2015 1:27:30 PM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 580-53787-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-53787-1

Comments
No additional comments.

Receipt
The samples were received on 9/30/2015 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6º C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

The following samples was activated by the client on 10-9-15: BG-1-7-A (580-53787-11) and MW-5-17-A (580-53787-15).

The following samples have been logged in for all analyses except pesticides per client request: MW-1-22-A and MW-5-22A.

The client sample ID for sample 580-53787-6 was changed to MW-1-2.5.

GC/MS VOA
Method(s) 8260C: The method blank for preparation batch 580-203073 and analytical batch 580-204000 contained Methylene chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The following analyte(s) recovered outside control limits for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with preparation batch 580-202553 and analytical batch 580-202536: Vinyl chloride. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-202536 was outside criteria for the following analyte(s): 2-Butanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-202766 was outside criteria for the following analyte(s): 2-Butanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-203054 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The following samples was prepared outside of the 48 hour preparation holding time for bulk soil samples due to laboratory error: MW-1-22-A (580-53787-9), BG-1-7-A (580-53787-11), and MW-5-17-A (580-53787-15).

Method(s) NWTPH-Gx: The method blank for preparation batch 580-202577 and analytical batch 580-202593 contained Gasoline above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) NWTPH-Gx: The following samples were analyzed outside of analytical holding time due to laboratory error: MW-1-22-A (580-53787-9), BG-1-7-A (580-53787-11) and MW-5-17-A (580-53787-15).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The method blank for preparation batch 580-202448 and analytical batch 580-203464 contained Diethyl phthalate,

Job ID: 580-53787-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

Di-n-butyl phthalate and Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: The method blank for preparation batch 580-202998 and analytical batch 580-203867 contained Diethyl phthalate and Bis(2-ethylhexyl) phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. Butyl Benzyl phthalate was detected above the method detection limit and reporting limit. All associated samples were either non-detect for this analyte or had results below the RL. Samples have been qualified and reported.

Method(s) 8270D: The following samples was diluted prior to analysis due to the nature of the sample matrix: MW-1-9 (580-53787-2), BG-1-3 (580-53787-4), MW-1-2.5 (580-53787-6), BG-2-3 (580-53787-7) and MW-1-22-A (580-53787-9). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Due to matrix interference from previous samples, internal standard responses for Perylene-12 were outside of acceptance limits for the following samples: BG-1-7-A (580-53787-11), MW-5-17-A (580-53787-15), (580-53787-A-11-C MS) and (580-53787-A-11-D MSD). The affected samples were re-analyzed with acceptable results. Data for Perylene-d12 and associated target analytes have been reported from the re-analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8081B: The method blank for preparation batch 580-202997 and analytical batch 580-204005 contained Dieldrin, Endrin ketone, Heptachlor, and Heptachlor epoxide above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8081B: Surrogate TCMX and/or DCB recovery for the following samples was outside control limits: MW-1-2 (580-53787-1), MW-1-12 (580-53787-3), BG-1-3 (580-53787-4), BG-1-23 (580-53787-5), MW-1-2.5 (580-53787-6), BG-2-3 (580-53787-7), (LCS 580-202548/8-A), (LCSD 580-202548/9-A) and (MB 580-202548/1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081B: There was a large sulfur peak that caused interference with multiple analytes; therefore the matrix spike (MS) and matrix spike duplicate (MSD) does not provide usefull information and will not be reported. Any detected analytes will be biased on the low side for sample BG-2-3 (580-53787-7).

Method(s) 8081B: The following samples were analyzed outside of hold time due to laboratory error: MW-1-2 (580-53787-1), MW-1-12 (580-53787-3), BG-1-3 (580-53787-4), BG-1-23 (580-53787-5), MW-1-2.5 (580-53787-6), and BG-2-3 (580-53787-7). Samples have been qualified and reported.

Method(s) 8082A: The surrogate recovery for the following samples was outside control limits (low): MW-1-2 (580-53787-1) and BG-1-23 (580-53787-5). The assoicated method blank and laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) met acceptance criteria. There is chromatographic evidence of matrix interference as large non-target peaks; therefore, matrix interference is suspected and re-extraction and/or re-analysis was not performed

Method(s) 8082A: The surrogate recovery for the following samples was outside control limits (low): MW-1-9 (580-53787-2). The assoicated method blank and laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) met acceptance criteria. There is chromatographic evidence of matrix interference as large non-target peaks and the surrogate TCX was in control indicating a successful extraction; therefore, matrix interference is suspected and re-extraction and/or re-analysis was not performed.

Method(s) 8082A: The surrogate recovery for the following samples was outside control limits (low): MW-1-22-A (580-53787-9). The assoicated method blank and laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) met acceptance criteria. There is chromatographic evidence of matrix interference as large non-target peaks and the surrogate DCB was in control indicating a successful extraction; therefore, matrix interference is suspected and re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-53787-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
H	Sample was prepped or analyzed beyond the specified holding time
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.
P	The %RPD between the primary and confirmation column/detector is >40%. The higher value has been reported

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-1-2
Date Collected: 09/29/15 15:37
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-1
Matrix: Solid
Percent Solids: 79.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		49	4.7	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
1,1,1-Trichloroethane	ND		49	6.9	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
1,1,2,2-Tetrachloroethane	ND		12	2.8	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
1,1,2-Trichloroethane	ND		15	3.4	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
1,1-Dichloroethane	ND		49	5.2	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
1,2,3-Trichloropropane	ND		49	14	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
1,2-Dibromoethane	ND		20	4.2	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
1,2-Dichloroethane	ND		20	4.1	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
1,2-Dichloropropane	ND		15	3.0	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
2-Butanone	ND		490	64	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
2-Chloroethyl vinyl ether	ND		250	7.6	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
2-Hexanone	ND		250	44	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
4-Methyl-2-pentanone	ND		250	36	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Acetone	ND		990	210	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Acrolein	ND		1500	110	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Acrylonitrile	ND		490	120	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Benzene	ND		20	4.3	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Bromochloromethane	ND		49	5.7	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Bromodichloromethane	ND		49	1.7	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Bromoform	ND		49	8.0	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Bromomethane	ND		170	17	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Carbon disulfide	ND		49	5.4	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Carbon tetrachloride	ND		25	4.7	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Chlorobenzene	ND		49	12	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Chlorodibromomethane	ND		25	3.4	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Chloroethane	ND		490	20	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Chloroform	ND		49	5.2	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Chloromethane	ND		120	12	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
cis-1,2-Dichloroethene	ND		49	6.0	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
cis-1,3-Dichloropropene	ND		20	2.2	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Dibromomethane	ND		74	16	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Dichlorodifluoromethane	ND		49	8.0	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Ethylbenzene	ND		49	2.5	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Iodomethane	ND		250	7.8	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Isopropylbenzene	ND		49	3.2	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Methyl tert-butyl ether	ND		49	7.4	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Methylene Chloride	ND		31	14	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
m-Xylene & p-Xylene	ND		49	3.7	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
o-Xylene	ND		49	3.7	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Styrene	ND		49	3.0	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
t-Butylbenzene	ND		49	3.8	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Tetrachloroethene	ND		25	6.5	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Toluene	ND		49	3.2	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
trans-1,2-Dichloroethene	ND		49	4.7	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
trans-1,3-Dichloropropene	ND		49	8.6	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
trans-1,4-Dichloro-2-butene	ND		250	20	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Trichloroethene	ND		30	3.8	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Trichlorofluoromethane	ND		49	7.3	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1
Vinyl acetate	ND		250	57	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1

Client Sample ID: MW-1-2
Date Collected: 09/29/15 15:37
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-1
Matrix: Solid
Percent Solids: 79.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	20	8.7	ug/Kg	☼	10/06/15 10:47	10/06/15 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 136*	*10/06/15 10:47*	*10/06/15 16:43*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*10/06/15 10:47*	*10/06/15 16:43*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 132*	*10/06/15 10:47*	*10/06/15 16:43*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*10/06/15 10:47*	*10/06/15 16:43*	*1*
Trifluorotoluene (Surr)	*98*		*65 - 140*	*10/06/15 10:47*	*10/06/15 16:43*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.6**	**J**	2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
2-Methylnaphthalene	**0.91**	**J**	2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Dimethyl phthalate	ND		13	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Acenaphthylene	ND		2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Acenaphthene	ND		2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Diethyl phthalate	**12**	**J B**	25	1.9	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Fluorene	ND		2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Phenanthrene	**6.1**		2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Anthracene	**1.4**	**J**	2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Di-n-butyl phthalate	**12**	**J B**	63	6.3	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Fluoranthene	**22**		2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Pyrene	**22**		2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Butyl benzyl phthalate	**6.4**	**J**	25	6.3	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Benzo[a]anthracene	**16**		2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Chrysene	**22**		3.1	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Bis(2-ethylhexyl) phthalate	**15**	**J B**	75	6.3	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Di-n-octyl phthalate	**110**		63	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Benzo[b]fluoranthene	**42**		2.5	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Benzo[k]fluoranthene	**18**		3.1	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Benzo[a]pyrene	**29**		3.8	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Indeno[1,2,3-cd]pyrene	**28**		5.0	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Dibenz(a,h)anthracene	**5.1**		5.0	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1
Benzo[g,h,i]perylene	**28**		3.1	0.63	ug/Kg	☼	10/04/15 09:47	10/17/15 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*113*		*42 - 151*	*10/04/15 09:47*	*10/17/15 01:04*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**0.92**	**J B**	4.9	0.62	mg/Kg	☼	10/06/15 13:42	10/06/15 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*	*10/06/15 13:42*	*10/06/15 20:45*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	**0.29**	**H**	0.24	0.037	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
2,4'-DDE	ND	H	0.24	0.037	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
2,4'-DDT	ND	H	0.24	0.037	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
4,4'-DDD	ND	H	0.24	0.018	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1

Client Sample ID: MW-1-2
Date Collected: 09/29/15 15:37
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-1
Matrix: Solid
Percent Solids: 79.0

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	**1.5**	**H**	0.24	0.017	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
4,4'-DDT	**2.3**	**H**	0.24	0.019	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Aldrin	ND	H	0.12	0.027	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
alpha-BHC	ND	H	0.12	0.034	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
alpha-Chlordane	ND	H	0.12	0.016	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
beta-BHC	ND	H	0.12	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Chlordane (technical)	ND	H	1.2	0.17	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
cis-Nonachlor	ND	H	0.24	0.023	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
delta-BHC	ND	H	0.12	0.018	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Dieldrin	ND	H	0.24	0.014	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Endosulfan I	ND	H	0.12	0.012	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Endosulfan II	ND	H	0.24	0.021	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Endosulfan sulfate	ND	H	0.24	0.023	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Endrin	ND	H	0.24	0.020	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Endrin aldehyde	ND	H	0.24	0.024	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Endrin ketone	ND	H	0.24	0.031	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
gamma-BHC (Lindane)	ND	H	0.12	0.037	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
gamma-Chlordane	ND	H	0.12	0.016	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Heptachlor	ND	H	0.24	0.057	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Heptachlor epoxide	ND	H	0.12	0.00037	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Methoxychlor	ND	H	1.2	0.031	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
oxy-Chlordane	ND	H	0.24	0.037	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
Toxaphene	ND	H	12	2.8	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1
trans-Nonachlor	ND	H	0.24	0.037	ug/Kg	☼	10/06/15 10:34	11/20/15 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*15*	*X*	*60 - 128*	*10/06/15 10:34*	*11/20/15 00:37*	*1*
Tetrachloro-m-xylene	*14*	*X*	*35 - 129*	*10/06/15 10:34*	*11/20/15 00:37*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.2	0.061	ug/Kg	☼	10/06/15 10:34	11/12/15 14:37	1
PCB-1221	ND		1.3	0.41	ug/Kg	☼	10/06/15 10:34	11/12/15 14:37	1
PCB-1232	ND		1.3	0.27	ug/Kg	☼	10/06/15 10:34	11/12/15 14:37	1
PCB-1242	ND		1.2	0.26	ug/Kg	☼	10/06/15 10:34	11/12/15 14:37	1
PCB-1248	ND		1.3	0.19	ug/Kg	☼	10/06/15 10:34	11/12/15 14:37	1
PCB-1254	ND		1.2	0.11	ug/Kg	☼	10/06/15 10:34	11/12/15 14:37	1
PCB-1260	**7.0**		1.2	0.16	ug/Kg	☼	10/06/15 10:34	11/12/15 14:37	1
PCB-1262	ND		1.2	0.23	ug/Kg	☼	10/06/15 10:34	11/12/15 14:37	1
PCB-1268	ND		1.2	0.26	ug/Kg	☼	10/06/15 10:34	11/12/15 14:37	1
Polychlorinated biphenyls, Total	**7.0**		1.3	0.41	ug/Kg	☼	10/06/15 10:34	11/12/15 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*25*	*X*	*50 - 140*	*10/06/15 10:34*	*11/12/15 14:37*	*1*
Tetrachloro-m-xylene	*22*	*X*	*45 - 135*	*10/06/15 10:34*	*11/12/15 14:37*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**6.6**	**J**	29	4.2	mg/Kg	☼	10/03/15 15:42	10/06/15 20:42	1
Motor Oil (>C24-C36)	ND		59	11	mg/Kg	☼	10/03/15 15:42	10/06/15 20:42	1

Client Sample ID: MW-1-2
Date Collected: 09/29/15 15:37
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-1
Matrix: Solid
Percent Solids: 79.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*10/03/15 15:42*	*10/06/15 20:42*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24000		18	18	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Antimony	1.2		0.12	0.025	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Arsenic	10		0.29	0.11	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Barium	180		0.29	0.046	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Cadmium	0.38		0.12	0.011	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Chromium	25		0.29	0.037	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Copper	35		0.24	0.058	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Lead	34		0.29	0.028	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Magnesium	5800		59	1.6	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Nickel	27		0.29	0.048	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Silver	0.067	J	0.12	0.0071	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5
Zinc	150		2.9	0.66	mg/Kg	☼	10/15/15 07:07	10/16/15 02:01	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.024	0.0072	mg/Kg	☼	10/15/15 09:35	10/15/15 12:51	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.57				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	2900		2000	44	mg/Kg			10/12/15 15:15	1
TOC Result 2	2700		2000	44	mg/Kg			10/12/15 15:15	1
TOC Result 1	3100		2000	44	mg/Kg			10/12/15 15:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	21		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-1-9
Date Collected: 09/29/15 15:48
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-2
Matrix: Solid
Percent Solids: 70.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	33		28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
2-Methylnaphthalene	16	J	28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Dimethyl phthalate	ND		140	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Acenaphthylene	31		28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Acenaphthene	45		28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Diethyl phthalate	130	J B	280	21	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Fluorene	36		28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Phenanthrene	370		28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Anthracene	85		28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Di-n-butyl phthalate	ND		700	70	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Fluoranthene	500		28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Pyrene	480		28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Butyl benzyl phthalate	ND		280	70	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Benzo[a]anthracene	180		28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Chrysene	200		35	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Bis(2-ethylhexyl) phthalate	110	J B	840	70	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Di-n-octyl phthalate	ND		700	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Benzo[b]fluoranthene	360		28	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Benzo[k]fluoranthene	150		35	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Benzo[a]pyrene	260		42	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Indeno[1,2,3-cd]pyrene	140		56	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Dibenz(a,h)anthracene	29	J	56	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10
Benzo[g,h,i]perylene	150		35	7.0	ug/Kg	☼	10/04/15 09:47	10/17/15 01:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*136*		*42 - 151*	*10/04/15 09:47*	*10/17/15 01:29*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1 F2	1.4	0.068	ug/Kg	☼	10/06/15 10:34	11/12/15 14:53	1
PCB-1221	ND		1.5	0.46	ug/Kg	☼	10/06/15 10:34	11/12/15 14:53	1
PCB-1232	ND		1.5	0.30	ug/Kg	☼	10/06/15 10:34	11/12/15 14:53	1
PCB-1242	ND		1.4	0.28	ug/Kg	☼	10/06/15 10:34	11/12/15 14:53	1
PCB-1248	ND		1.5	0.22	ug/Kg	☼	10/06/15 10:34	11/12/15 14:53	1
PCB-1254	120		1.4	0.12	ug/Kg	☼	10/06/15 10:34	11/12/15 14:53	1
PCB-1260	ND	F1	1.4	0.18	ug/Kg	☼	10/06/15 10:34	11/12/15 14:53	1
PCB-1262	ND		1.4	0.26	ug/Kg	☼	10/06/15 10:34	11/12/15 14:53	1
PCB-1268	ND		1.4	0.28	ug/Kg	☼	10/06/15 10:34	11/12/15 14:53	1
Polychlorinated biphenyls, Total	120		1.5	0.46	ug/Kg	☼	10/06/15 10:34	11/12/15 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*	*X*	*50 - 140*	*10/06/15 10:34*	*11/12/15 14:53*	*1*
Tetrachloro-m-xylene	*46*		*45 - 135*	*10/06/15 10:34*	*11/12/15 14:53*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4800		18	18	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5
Antimony	4.2		0.12	0.026	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5
Arsenic	3.5		0.31	0.11	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5
Barium	280		0.31	0.048	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-1-9
Date Collected: 09/29/15 15:48
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-2
Matrix: Solid
Percent Solids: 70.6

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.98		0.12	0.012	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5
Chromium	11		0.31	0.038	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5
Copper	36		0.24	0.060	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5
Lead	330		0.31	0.029	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5
Magnesium	3300		61	1.6	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5
Nickel	19		0.31	0.049	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5
Silver	0.061	J	0.12	0.0073	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5
Zinc	550		3.1	0.68	mg/Kg	☼	10/15/15 07:07	10/16/15 02:05	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	71		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	29		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-1-12
Date Collected: 09/29/15 15:58
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-3
Matrix: Solid
Percent Solids: 76.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		47	4.5	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
1,1,1-Trichloroethane	ND		47	6.6	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
1,1,2,2-Tetrachloroethane	ND		12	2.7	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
1,1,2-Trichloroethane	ND		14	3.3	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
1,1-Dichloroethane	ND		47	5.0	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
1,2,3-Trichloropropane	ND		47	14	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
1,2-Dibromoethane	ND		19	4.0	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
1,2-Dichloroethane	ND		19	3.9	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
1,2-Dichloropropane	ND		14	2.8	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
2-Butanone	ND		470	62	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
2-Chloroethyl vinyl ether	ND		240	7.3	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
2-Hexanone	ND		240	42	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
4-Methyl-2-pentanone	ND		240	35	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Acetone	ND		950	210	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Acrolein	ND		1400	110	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Acrylonitrile	ND		470	110	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Benzene	ND		19	4.1	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Bromochloromethane	ND		47	5.4	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Bromodichloromethane	ND		47	1.7	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Bromoform	ND		47	7.7	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Bromomethane	ND		170	16	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Carbon disulfide	ND		47	5.2	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Carbon tetrachloride	ND		24	4.5	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Chlorobenzene	ND		47	12	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Chlorodibromomethane	ND		24	3.3	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Chloroethane	ND		470	19	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Chloroform	ND		47	5.0	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Chloromethane	ND		120	12	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
cis-1,2-Dichloroethene	ND		47	5.8	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
cis-1,3-Dichloropropene	ND		19	2.1	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Dibromomethane	ND		71	16	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Dichlorodifluoromethane	ND		47	7.7	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Ethylbenzene	ND		47	2.4	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Iodomethane	ND		240	7.5	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Isopropylbenzene	ND		47	3.1	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Methyl tert-butyl ether	ND		47	7.1	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Methylene Chloride	ND		30	14	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
m-Xylene & p-Xylene	ND		47	3.6	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
o-Xylene	ND		47	3.6	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Styrene	ND		47	2.8	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
t-Butylbenzene	ND		47	3.7	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Tetrachloroethene	ND		24	6.3	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Toluene	ND		47	3.1	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
trans-1,2-Dichloroethene	ND		47	4.5	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
trans-1,3-Dichloropropene	ND		47	8.3	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
trans-1,4-Dichloro-2-butene	ND		240	19	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Trichloroethene	ND		28	3.7	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Trichlorofluoromethane	ND		47	7.0	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1
Vinyl acetate	ND		240	55	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1

Client Sample ID: MW-1-12
Date Collected: 09/29/15 15:58
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-3
Matrix: Solid
Percent Solids: 76.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	19	8.4	ug/Kg	☼	10/06/15 10:47	10/06/15 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 136*	*10/06/15 10:47*	*10/06/15 17:10*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*10/06/15 10:47*	*10/06/15 17:10*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 132*	*10/06/15 10:47*	*10/06/15 17:10*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*10/06/15 10:47*	*10/06/15 17:10*	*1*
Trifluorotoluene (Surr)	*96*		*65 - 140*	*10/06/15 10:47*	*10/06/15 17:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
2-Methylnaphthalene	ND		2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Dimethyl phthalate	ND		13	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Acenaphthylene	ND		2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Acenaphthene	ND		2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Diethyl phthalate	**13**	**J B**	26	2.0	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Fluorene	ND		2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Phenanthrene	**1.4**	**J**	2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Anthracene	ND		2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Di-n-butyl phthalate	**11**	**J B**	65	6.5	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Fluoranthene	**1.7**	**J**	2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Pyrene	**2.2**	**J**	2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Butyl benzyl phthalate	**8.9**	**J**	26	6.5	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Benzo[a]anthracene	**1.2**	**J**	2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Chrysene	**2.0**	**J**	3.3	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Bis(2-ethylhexyl) phthalate	**20**	**J B**	78	6.5	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Di-n-octyl phthalate	ND		65	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Benzo[b]fluoranthene	ND		2.6	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Benzo[k]fluoranthene	ND		3.3	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Benzo[a]pyrene	ND		3.9	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Dibenz(a,h)anthracene	ND		5.2	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1
Benzo[g,h,i]perylene	ND		3.3	0.65	ug/Kg	☼	10/04/15 09:47	10/17/15 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*119*		*42 - 151*	*10/04/15 09:47*	*10/17/15 02:20*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**0.77**	**J B**	4.7	0.59	mg/Kg	☼	10/06/15 13:42	10/06/15 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*	*10/06/15 13:42*	*10/06/15 21:16*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.26	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
2,4'-DDE	ND	H	0.26	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
2,4'-DDT	ND	H	0.26	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
4,4'-DDD	ND	H	0.26	0.019	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1

Client Sample ID: MW-1-12
Date Collected: 09/29/15 15:58
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-3
Matrix: Solid
Percent Solids: 76.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	0.26	0.018	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
4,4'-DDT	ND	H	0.26	0.020	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Aldrin	**0.068**	**J H**	0.13	0.029	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
alpha-BHC	**0.57**	**H**	0.13	0.036	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
alpha-Chlordane	ND	H	0.13	0.017	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
beta-BHC	**0.87**	**H**	0.13	0.042	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Chlordane (technical)	**17**	**H E**	1.3	0.18	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
cis-Nonachlor	ND	H	0.26	0.025	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
delta-BHC	**0.71**	**H**	0.13	0.019	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Dieldrin	ND	H	0.26	0.015	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Endosulfan I	ND	H	0.13	0.013	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Endosulfan II	ND	H	0.26	0.022	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Endosulfan sulfate	ND	H	0.26	0.024	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Endrin	ND	H	0.26	0.021	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Endrin aldehyde	ND	H	0.26	0.025	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Endrin ketone	ND	H	0.26	0.033	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
gamma-BHC (Lindane)	**0.23**	**H**	0.13	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
gamma-Chlordane	ND	H	0.13	0.017	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Heptachlor	**1.7**	**H**	0.26	0.060	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Heptachlor epoxide	ND	H	0.13	0.00039	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Methoxychlor	ND	H	1.3	0.033	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
oxy-Chlordane	**NC**	**H**	0.26	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
Toxaphene	ND	H	13	2.9	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1
trans-Nonachlor	**NC**	**H**	0.26	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*17*	*X*	*60 - 128*	*10/06/15 10:34*	*11/20/15 00:54*	*1*
Tetrachloro-m-xylene	*26*	*X*	*35 - 129*	*10/06/15 10:34*	*11/20/15 00:54*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.064	ug/Kg	☼	10/06/15 10:34	11/12/15 15:44	1
PCB-1221	ND		1.4	0.44	ug/Kg	☼	10/06/15 10:34	11/12/15 15:44	1
PCB-1232	ND		1.4	0.28	ug/Kg	☼	10/06/15 10:34	11/12/15 15:44	1
PCB-1242	ND		1.3	0.27	ug/Kg	☼	10/06/15 10:34	11/12/15 15:44	1
PCB-1248	ND		1.4	0.21	ug/Kg	☼	10/06/15 10:34	11/12/15 15:44	1
PCB-1254	ND		1.3	0.12	ug/Kg	☼	10/06/15 10:34	11/12/15 15:44	1
PCB-1260	ND		1.3	0.17	ug/Kg	☼	10/06/15 10:34	11/12/15 15:44	1
PCB-1262	ND		1.3	0.24	ug/Kg	☼	10/06/15 10:34	11/12/15 15:44	1
PCB-1268	ND		1.3	0.27	ug/Kg	☼	10/06/15 10:34	11/12/15 15:44	1
Polychlorinated biphenyls, Total	ND		1.4	0.44	ug/Kg	☼	10/06/15 10:34	11/12/15 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*50 - 140*	*10/06/15 10:34*	*11/12/15 15:44*	*1*
Tetrachloro-m-xylene	*76*		*45 - 135*	*10/06/15 10:34*	*11/12/15 15:44*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**48**		30	4.4	mg/Kg	☼	10/03/15 15:42	10/06/15 21:18	1
Motor Oil (>C24-C36)	**150**		60	11	mg/Kg	☼	10/03/15 15:42	10/06/15 21:18	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-1-12
Date Collected: 09/29/15 15:58
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-3
Matrix: Solid
Percent Solids: 76.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150	10/03/15 15:42	10/06/15 21:18	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	27000		17	17	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Antimony	0.80		0.12	0.024	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Arsenic	12		0.29	0.10	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Barium	200		0.29	0.045	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Cadmium	0.26		0.12	0.011	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Chromium	23		0.29	0.036	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Copper	31		0.23	0.057	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Lead	17		0.29	0.028	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Magnesium	6000		58	1.5	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Nickel	20		0.29	0.047	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Silver	0.052	J	0.12	0.0069	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5
Zinc	84		2.9	0.65	mg/Kg	☼	10/15/15 07:07	10/16/15 02:09	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.026	0.0077	mg/Kg	☼	10/15/15 09:35	10/15/15 12:56	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	1300	J	2000	44	mg/Kg			10/12/15 15:21	1
TOC Result 2	1500	J	2000	44	mg/Kg			10/12/15 15:21	1
TOC Result 1	1100	J	2000	44	mg/Kg			10/12/15 15:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	23		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: BG-1-3
Date Collected: 09/30/15 09:00
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-4
Matrix: Solid
Percent Solids: 87.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		41	3.9	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
1,1,1-Trichloroethane	ND		41	5.7	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
1,1-Dichloroethane	**5.0**	**J**	41	4.3	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
1,2,3-Trichloropropane	ND		41	12	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
1,2-Dibromoethane	ND		16	3.5	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
1,2-Dichloroethane	ND		16	3.4	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
2-Butanone	ND		410	53	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
2-Chloroethyl vinyl ether	ND		200	6.3	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
2-Hexanone	ND		200	36	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Acetone	ND		810	180	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Acrolein	ND		1200	92	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Acrylonitrile	ND		410	98	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Benzene	**8.8**	**J**	16	3.6	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Bromochloromethane	ND		41	4.7	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Bromodichloromethane	ND		41	1.4	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Bromoform	ND		41	6.6	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Bromomethane	ND		140	14	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Carbon disulfide	ND		41	4.5	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Carbon tetrachloride	ND		20	3.9	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Chlorobenzene	ND		41	10	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Chlorodibromomethane	ND		20	2.8	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Chloroethane	ND		410	16	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Chloroform	ND		41	4.3	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Chloromethane	ND		100	10	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
cis-1,2-Dichloroethene	ND		41	5.0	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Dibromomethane	ND		61	13	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Dichlorodifluoromethane	ND		41	6.6	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Ethylbenzene	ND		41	2.0	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Iodomethane	ND		200	6.4	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Isopropylbenzene	ND		41	2.6	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Methyl tert-butyl ether	ND		41	6.1	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Methylene Chloride	ND		25	12	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
m-Xylene & p-Xylene	ND		41	3.0	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
o-Xylene	**5.5**	**J**	41	3.0	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Styrene	ND		41	2.4	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
t-Butylbenzene	ND		41	3.1	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Tetrachloroethene	ND		20	5.4	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Toluene	**14**	**J**	41	2.6	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
trans-1,2-Dichloroethene	ND		41	3.9	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
trans-1,3-Dichloropropene	ND		41	7.1	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Trichloroethene	ND		24	3.1	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Trichlorofluoromethane	ND		41	6.0	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1
Vinyl acetate	ND		200	47	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1

Client Sample ID: BG-1-3
Date Collected: 09/30/15 09:00
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-4
Matrix: Solid
Percent Solids: 87.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	16	7.2	ug/Kg	☼	10/06/15 10:47	10/06/15 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 136*	*10/06/15 10:47*	*10/06/15 17:37*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 120*	*10/06/15 10:47*	*10/06/15 17:37*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 132*	*10/06/15 10:47*	*10/06/15 17:37*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/06/15 10:47*	*10/06/15 17:37*	*1*
Trifluorotoluene (Surr)	*96*		*65 - 140*	*10/06/15 10:47*	*10/06/15 17:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**4.4**	**J**	11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
2-Methylnaphthalene	ND		11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Dimethyl phthalate	ND		57	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Acenaphthylene	ND		11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Acenaphthene	ND		11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Diethyl phthalate	**50**	**J B**	110	8.5	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Fluorene	ND		11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Phenanthrene	**9.4**	**J**	11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Anthracene	ND		11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Di-n-butyl phthalate	ND		280	28	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Fluoranthene	**23**		11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Pyrene	**30**		11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Butyl benzyl phthalate	ND		110	28	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Benzo[a]anthracene	**14**		11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Chrysene	**19**		14	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Bis(2-ethylhexyl) phthalate	**47**	**J B**	340	28	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Di-n-octyl phthalate	ND		280	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Benzo[b]fluoranthene	**30**		11	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Benzo[k]fluoranthene	**12**	**J**	14	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Benzo[a]pyrene	**17**		17	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Indeno[1,2,3-cd]pyrene	**12**	**J**	23	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Dibenz(a,h)anthracene	ND		23	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5
Benzo[g,h,i]perylene	**12**	**J**	14	2.8	ug/Kg	☼	10/04/15 09:47	10/17/15 02:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*113*		*42 - 151*	*10/04/15 09:47*	*10/17/15 02:46*	*5*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**3.1**	**J B**	4.1	0.51	mg/Kg	☼	10/06/15 13:42	10/06/15 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*10/06/15 13:42*	*10/06/15 21:47*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.22	0.034	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
2,4'-DDE	ND	H	0.22	0.034	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
2,4'-DDT	ND	H	0.22	0.034	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
4,4'-DDD	ND	H	0.22	0.016	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1

Client Sample ID: BG-1-3
Date Collected: 09/30/15 09:00
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-4
Matrix: Solid
Percent Solids: 87.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	0.22	0.016	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
4,4'-DDT	ND	H	0.22	0.017	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Aldrin	ND	H	0.11	0.025	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
alpha-BHC	ND	H	0.11	0.031	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
alpha-Chlordane	ND	H	0.11	0.015	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
beta-BHC	ND	H	0.11	0.036	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Chlordane (technical)	ND	H	1.1	0.16	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
cis-Nonachlor	ND	H	0.22	0.022	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
delta-BHC	ND	H	0.11	0.017	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Dieldrin	ND	H	0.22	0.013	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Endosulfan I	ND	H	0.11	0.011	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Endosulfan II	ND	H	0.22	0.019	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Endosulfan sulfate	ND	H	0.22	0.021	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Endrin	ND	H	0.22	0.018	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Endrin aldehyde	ND	H	0.22	0.022	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Endrin ketone	ND	H	0.22	0.029	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
gamma-BHC (Lindane)	ND	H	0.11	0.034	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
gamma-Chlordane	ND	H	0.11	0.015	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Heptachlor	ND	H	0.22	0.052	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Heptachlor epoxide	ND	H	0.11	0.00034	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Methoxychlor	ND	H	1.1	0.029	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
oxy-Chlordane	ND	H	0.22	0.034	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
Toxaphene	ND	H	11	2.6	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1
trans-Nonachlor	ND	H	0.22	0.034	ug/Kg	☼	10/06/15 10:34	11/20/15 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*33*	*X*	*60 - 128*	*10/06/15 10:34*	*11/20/15 01:11*	*1*
Tetrachloro-m-xylene	*38*		*35 - 129*	*10/06/15 10:34*	*11/20/15 01:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.1	0.056	ug/Kg	☼	10/06/15 10:34	11/12/15 16:00	1
PCB-1221	ND		1.2	0.38	ug/Kg	☼	10/06/15 10:34	11/12/15 16:00	1
PCB-1232	ND		1.2	0.25	ug/Kg	☼	10/06/15 10:34	11/12/15 16:00	1
PCB-1242	ND		1.1	0.24	ug/Kg	☼	10/06/15 10:34	11/12/15 16:00	1
PCB-1248	ND		1.2	0.18	ug/Kg	☼	10/06/15 10:34	11/12/15 16:00	1
PCB-1254	**11**		1.1	0.10	ug/Kg	☼	10/06/15 10:34	11/12/15 16:00	1
PCB-1260	ND		1.1	0.15	ug/Kg	☼	10/06/15 10:34	11/12/15 16:00	1
PCB-1262	ND		1.1	0.21	ug/Kg	☼	10/06/15 10:34	11/12/15 16:00	1
PCB-1268	ND		1.1	0.24	ug/Kg	☼	10/06/15 10:34	11/12/15 16:00	1
Polychlorinated biphenyls, Total	**11**		1.2	0.38	ug/Kg	☼	10/06/15 10:34	11/12/15 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*50 - 140*	*10/06/15 10:34*	*11/12/15 16:00*	*1*
Tetrachloro-m-xylene	*67*		*45 - 135*	*10/06/15 10:34*	*11/12/15 16:00*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		28	4.0	mg/Kg	☼	10/03/15 15:42	10/06/15 21:36	1
Motor Oil (>C24-C36)	ND		56	10	mg/Kg	☼	10/03/15 15:42	10/06/15 21:36	1

Client Sample ID: BG-1-3
Date Collected: 09/30/15 09:00
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-4
Matrix: Solid
Percent Solids: 87.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*10/03/15 15:42*	*10/06/15 21:36*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		15	15	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Antimony	0.32		0.099	0.021	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Arsenic	4.5		0.25	0.089	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Barium	120		0.25	0.039	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Cadmium	0.21		0.099	0.0094	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Chromium	13		0.25	0.031	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Copper	21		0.20	0.049	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Lead	9.9		0.25	0.024	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Magnesium	5300		50	1.3	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Nickel	17		0.25	0.040	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Silver	0.027	J	0.099	0.0060	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5
Zinc	61		2.5	0.56	mg/Kg	☼	10/15/15 07:07	10/16/15 02:14	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0076	J	0.021	0.0064	mg/Kg	☼	10/15/15 09:35	10/15/15 12:41	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	300	J	2000	44	mg/Kg			10/14/15 19:43	1
TOC Result 2	250	J	2000	44	mg/Kg			10/14/15 19:43	1
TOC Result 1	350	J	2000	44	mg/Kg			10/14/15 19:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	12		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: BG-1-23
Date Collected: 09/30/15 09:48
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-5
Matrix: Solid
Percent Solids: 73.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		56	5.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
1,1,1-Trichloroethane	ND		56	7.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
1,1,2,2-Tetrachloroethane	ND		14	3.2	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
1,1,2-Trichloroethane	ND		17	3.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
1,1-Dichloroethane	ND		56	5.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
1,2,3-Trichloropropane	ND		56	16	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
1,2-Dibromoethane	ND		22	4.7	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
1,2-Dichloroethane	ND		22	4.6	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
1,2-Dichloropropane	ND		17	3.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
2-Butanone	ND		560	73	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
2-Chloroethyl vinyl ether	ND		280	8.7	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
2-Hexanone	ND		280	50	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
4-Methyl-2-pentanone	ND		280	41	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Acetone	ND		1100	240	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Acrolein	ND		1700	130	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Acrylonitrile	ND		560	130	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Benzene	ND		22	4.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Bromochloromethane	ND		56	6.4	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Bromodichloromethane	ND		56	2.0	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Bromoform	ND		56	9.1	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Bromomethane	ND		200	19	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Carbon disulfide	ND		56	6.1	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Carbon tetrachloride	ND		28	5.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Chlorobenzene	ND		56	14	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Chlorodibromomethane	ND		28	3.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Chloroethane	ND		560	22	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Chloroform	ND		56	5.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Chloromethane	ND		140	14	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
cis-1,2-Dichloroethene	ND		56	6.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
cis-1,3-Dichloropropene	ND		22	2.5	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Dibromomethane	ND		84	18	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Dichlorodifluoromethane	ND		56	9.1	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Ethylbenzene	ND		56	2.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Iodomethane	ND		280	8.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Isopropylbenzene	ND		56	3.6	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Methyl tert-butyl ether	ND		56	8.4	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Methylene Chloride	ND		35	16	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
m-Xylene & p-Xylene	ND		56	4.2	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
o-Xylene	ND		56	4.2	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Styrene	ND		56	3.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
t-Butylbenzene	ND		56	4.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Tetrachloroethene	ND		28	7.4	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Toluene	ND		56	3.6	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
trans-1,2-Dichloroethene	ND		56	5.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
trans-1,3-Dichloropropene	ND		56	9.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
trans-1,4-Dichloro-2-butene	ND		280	22	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Trichloroethene	ND		33	4.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Trichlorofluoromethane	ND		56	8.2	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1
Vinyl acetate	ND		280	64	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1

Client Sample ID: BG-1-23
Date Collected: 09/30/15 09:48
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-5
Matrix: Solid
Percent Solids: 73.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	22	9.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*71 - 136*	*10/06/15 10:47*	*10/06/15 18:04*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 120*	*10/06/15 10:47*	*10/06/15 18:04*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/06/15 10:47*	*10/06/15 18:04*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/06/15 10:47*	*10/06/15 18:04*	*1*
Trifluorotoluene (Surr)	*94*		*65 - 140*	*10/06/15 10:47*	*10/06/15 18:04*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
2-Methylnaphthalene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Dimethyl phthalate	ND		14	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Acenaphthylene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Acenaphthene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Diethyl phthalate	**12**	**J B**	27	2.0	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Fluorene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Phenanthrene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Anthracene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Di-n-butyl phthalate	**11**	**J B**	68	6.8	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Fluoranthene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Pyrene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Butyl benzyl phthalate	ND		27	6.8	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Benzo[a]anthracene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Chrysene	ND		3.4	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Bis(2-ethylhexyl) phthalate	**22**	**J B**	81	6.8	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Di-n-octyl phthalate	ND		68	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Benzo[b]fluoranthene	ND		2.7	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Benzo[k]fluoranthene	ND	F1	3.4	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Benzo[a]pyrene	ND		4.1	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Indeno[1,2,3-cd]pyrene	ND	F1	5.4	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Dibenz(a,h)anthracene	ND		5.4	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1
Benzo[g,h,i]perylene	ND	F1	3.4	0.68	ug/Kg	☼	10/04/15 09:47	10/17/15 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*113*		*42 - 151*	*10/04/15 09:47*	*10/17/15 03:11*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**1.3**	**J B**	5.6	0.70	mg/Kg	☼	10/06/15 13:42	10/06/15 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*10/06/15 13:42*	*10/06/15 22:19*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	0.26	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
2,4'-DDE	ND	H	0.26	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
2,4'-DDT	ND	H	0.26	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
4,4'-DDD	**0.052**	**J H**	0.26	0.019	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1

Client Sample ID: BG-1-23
Date Collected: 09/30/15 09:48
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-5
Matrix: Solid
Percent Solids: 73.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	0.26	0.019	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
4,4'-DDT	**0.13**	**J H**	0.26	0.020	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Aldrin	**0.12**	**J H**	0.13	0.029	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
alpha-BHC	**0.054**	**J H**	0.13	0.036	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
alpha-Chlordane	**0.065**	**J H**	0.13	0.018	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
beta-BHC	ND	H	0.13	0.043	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Chlordane (technical)	**1.4**	**H**	1.3	0.18	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
cis-Nonachlor	**NC**	**H**	0.26	0.025	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
delta-BHC	**0.068**	**J H**	0.13	0.019	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Dieldrin	**2.3**	**H**	0.26	0.016	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Endosulfan I	ND	H	0.13	0.013	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Endosulfan II	ND	H	0.26	0.022	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Endosulfan sulfate	ND	H	0.26	0.024	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Endrin	ND	H	0.26	0.021	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Endrin aldehyde	**0.81**	**H**	0.26	0.026	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Endrin ketone	**0.095**	**J H**	0.26	0.034	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
gamma-BHC (Lindane)	ND	H	0.13	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
gamma-Chlordane	ND	H	0.13	0.018	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Heptachlor	ND	H	0.26	0.061	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Heptachlor epoxide	ND	H	0.13	0.00039	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Methoxychlor	ND	H	1.3	0.034	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
oxy-Chlordane	**NC**	**H**	0.26	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
Toxaphene	ND	H	13	3.0	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1
trans-Nonachlor	**NC**	**H**	0.26	0.039	ug/Kg	☼	10/06/15 10:34	11/20/15 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*12*	*X*	*60 - 128*	*10/06/15 10:34*	*11/20/15 03:11*	*1*
Tetrachloro-m-xylene	*23*	*X*	*35 - 129*	*10/06/15 10:34*	*11/20/15 03:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.066	ug/Kg	☼	10/06/15 10:34	11/12/15 16:17	1
PCB-1221	ND		1.4	0.45	ug/Kg	☼	10/06/15 10:34	11/12/15 16:17	1
PCB-1232	ND		1.4	0.29	ug/Kg	☼	10/06/15 10:34	11/12/15 16:17	1
PCB-1242	ND		1.3	0.28	ug/Kg	☼	10/06/15 10:34	11/12/15 16:17	1
PCB-1248	ND		1.4	0.21	ug/Kg	☼	10/06/15 10:34	11/12/15 16:17	1
PCB-1254	ND		1.3	0.12	ug/Kg	☼	10/06/15 10:34	11/12/15 16:17	1
PCB-1260	ND		1.3	0.17	ug/Kg	☼	10/06/15 10:34	11/12/15 16:17	1
PCB-1262	ND		1.3	0.25	ug/Kg	☼	10/06/15 10:34	11/12/15 16:17	1
PCB-1268	ND		1.3	0.28	ug/Kg	☼	10/06/15 10:34	11/12/15 16:17	1
Polychlorinated biphenyls, Total	ND		1.4	0.45	ug/Kg	☼	10/06/15 10:34	11/12/15 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*	*X*	*50 - 140*	*10/06/15 10:34*	*11/12/15 16:17*	*1*
Tetrachloro-m-xylene	*34*	*X*	*45 - 135*	*10/06/15 10:34*	*11/12/15 16:17*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		33	4.8	mg/Kg	☼	10/03/15 15:42	10/06/15 21:54	1
Motor Oil (>C24-C36)	ND		66	12	mg/Kg	☼	10/03/15 15:42	10/06/15 21:54	1

Client Sample ID: BG-1-23
Date Collected: 09/30/15 09:48
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-5
Matrix: Solid
Percent Solids: 73.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*10/03/15 15:42*	*10/06/15 21:54*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16000		18	18	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Antimony	0.48		0.12	0.025	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Arsenic	7.3		0.30	0.11	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Barium	170		0.30	0.046	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Cadmium	0.38		0.12	0.011	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Chromium	17		0.30	0.037	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Copper	29		0.24	0.058	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Lead	11		0.30	0.029	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Magnesium	6700		60	1.6	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Nickel	25		0.30	0.048	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Silver	0.051	J	0.12	0.0071	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5
Zinc	78		3.0	0.67	mg/Kg	☼	10/15/15 07:07	10/16/15 02:18	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.026	0.0078	mg/Kg	☼	10/15/15 09:35	10/15/15 13:03	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.08				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	360	J	2000	44	mg/Kg			10/14/15 19:59	1
TOC Result 2	390	J	2000	44	mg/Kg			10/14/15 19:59	1
TOC Result 1	330	J	2000	44	mg/Kg			10/14/15 19:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	74		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	26		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-1-2.5
Date Collected: 09/30/15 10:42
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-6
Matrix: Solid
Percent Solids: 86.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
1,1-Dichloroethane	ND		40	4.2	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
2-Butanone	ND		400	52	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
2-Hexanone	ND		200	36	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Acetone	ND		800	170	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Acrolein	ND		1200	91	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Acrylonitrile	ND		400	96	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Benzene	ND		16	3.5	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Bromochloromethane	ND		40	4.6	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Bromodichloromethane	ND		40	1.4	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Bromoform	ND		40	6.5	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Bromomethane	ND		140	13	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Carbon disulfide	ND		40	4.4	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Carbon tetrachloride	ND		20	3.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Chlorobenzene	ND		40	9.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Chlorodibromomethane	ND		20	2.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Chloroethane	ND		400	16	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Chloroform	ND		40	4.2	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Chloromethane	ND		100	10	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Dibromomethane	ND		60	13	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Dichlorodifluoromethane	ND		40	6.5	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Ethylbenzene	ND		40	2.0	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Iodomethane	ND		200	6.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Isopropylbenzene	ND		40	2.6	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Methylene Chloride	ND		25	12	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
o-Xylene	ND		40	3.0	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Styrene	ND		40	2.4	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
t-Butylbenzene	ND		40	3.1	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Tetrachloroethene	ND		20	5.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Toluene	ND		40	2.6	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Trichloroethene	ND		24	3.1	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1
Vinyl acetate	ND		200	46	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1

Client Sample ID: MW-1-2.5
Date Collected: 09/30/15 10:42
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-6
Matrix: Solid
Percent Solids: 86.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	16	7.1	ug/Kg	☼	10/06/15 10:47	10/06/15 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 136*	*10/06/15 10:47*	*10/06/15 18:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*10/06/15 10:47*	*10/06/15 18:31*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/06/15 10:47*	*10/06/15 18:31*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/06/15 10:47*	*10/06/15 18:31*	*1*
Trifluorotoluene (Surr)	*94*		*65 - 140*	*10/06/15 10:47*	*10/06/15 18:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
2-Methylnaphthalene	ND		23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Dimethyl phthalate	ND		120	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Acenaphthylene	ND		23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Acenaphthene	ND		23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Diethyl phthalate	**71**	**J B**	230	17	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Fluorene	ND		23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Phenanthrene	**31**		23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Anthracene	ND		23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Di-n-butyl phthalate	ND		580	58	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Fluoranthene	**64**		23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Pyrene	**71**		23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Butyl benzyl phthalate	ND		230	58	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Benzo[a]anthracene	**21**	**J**	23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Chrysene	**32**		29	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Bis(2-ethylhexyl) phthalate	**76**	**J B**	690	58	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Di-n-octyl phthalate	ND		580	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Benzo[b]fluoranthene	**46**		23	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Benzo[k]fluoranthene	**20**	**J**	29	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Benzo[a]pyrene	**36**		35	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Indeno[1,2,3-cd]pyrene	**18**	**J**	46	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Dibenz(a,h)anthracene	ND		46	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10
Benzo[g,h,i]perylene	**22**	**J**	29	5.8	ug/Kg	☼	10/04/15 09:47	10/17/15 04:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*131*		*42 - 151*	*10/04/15 09:47*	*10/17/15 04:28*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**1.1**	**J B**	4.0	0.50	mg/Kg	☼	10/06/15 13:42	10/06/15 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*	*10/06/15 13:42*	*10/06/15 22:50*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	**1.1**	**H**	1.1	0.17	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
2,4'-DDE	ND	H	1.1	0.17	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
2,4'-DDT	**1.2**	**H**	1.1	0.17	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
4,4'-DDD	**1.8**	**H**	1.1	0.083	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5

Client Sample ID: MW-1-2.5
Date Collected: 09/30/15 10:42
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-6
Matrix: Solid
Percent Solids: 86.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	**4.0**	**H**	1.1	0.080	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
4,4'-DDT	**4.8**	**H**	1.1	0.086	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Aldrin	ND	H	0.57	0.13	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
alpha-BHC	ND	H	0.57	0.16	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
alpha-Chlordane	ND	H	0.57	0.076	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
beta-BHC	ND	H	0.57	0.18	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Chlordane (technical)	ND	H	5.7	0.79	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
cis-Nonachlor	ND	H	1.1	0.11	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
delta-BHC	ND	H	0.57	0.084	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Dieldrin	ND	H	1.1	0.067	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Endosulfan I	ND	H	0.57	0.058	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Endosulfan II	ND	H	1.1	0.097	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Endosulfan sulfate	ND	H	1.1	0.10	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Endrin	ND	H	1.1	0.092	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Endrin aldehyde	ND	H	1.1	0.11	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Endrin ketone	ND	H	1.1	0.15	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
gamma-BHC (Lindane)	ND	H	0.57	0.17	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
gamma-Chlordane	ND	H	0.57	0.076	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Heptachlor	ND	H	1.1	0.26	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Heptachlor epoxide	ND	H	0.57	0.0017	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Methoxychlor	ND	H	5.7	0.15	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
oxy-Chlordane	ND	H	1.1	0.17	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
Toxaphene	ND	H	57	13	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5
trans-Nonachlor	ND	H	1.1	0.17	ug/Kg	☼	10/06/15 10:34	11/20/15 03:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*30*	*X*	*60 - 128*	*10/06/15 10:34*	*11/20/15 03:28*	*5*
Tetrachloro-m-xylene	*42*		*35 - 129*	*10/06/15 10:34*	*11/20/15 03:28*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.1	0.057	ug/Kg	☼	10/06/15 10:34	11/12/15 16:34	1
PCB-1221	ND		1.2	0.39	ug/Kg	☼	10/06/15 10:34	11/12/15 16:34	1
PCB-1232	ND		1.2	0.25	ug/Kg	☼	10/06/15 10:34	11/12/15 16:34	1
PCB-1242	ND		1.1	0.24	ug/Kg	☼	10/06/15 10:34	11/12/15 16:34	1
PCB-1248	ND		1.2	0.18	ug/Kg	☼	10/06/15 10:34	11/12/15 16:34	1
PCB-1254	**7.2**		1.1	0.10	ug/Kg	☼	10/06/15 10:34	11/12/15 16:34	1
PCB-1260	ND		1.1	0.15	ug/Kg	☼	10/06/15 10:34	11/12/15 16:34	1
PCB-1262	ND		1.1	0.22	ug/Kg	☼	10/06/15 10:34	11/12/15 16:34	1
PCB-1268	ND		1.1	0.24	ug/Kg	☼	10/06/15 10:34	11/12/15 16:34	1
Polychlorinated biphenyls, Total	**7.2**		1.2	0.39	ug/Kg	☼	10/06/15 10:34	11/12/15 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*50 - 140*	*10/06/15 10:34*	*11/12/15 16:34*	*1*
Tetrachloro-m-xylene	*61*		*45 - 135*	*10/06/15 10:34*	*11/12/15 16:34*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**6.9**	**J**	27	3.9	mg/Kg	☼	10/03/15 15:42	10/06/15 22:12	1
Motor Oil (>C24-C36)	ND		54	9.9	mg/Kg	☼	10/03/15 15:42	10/06/15 22:12	1

Client Sample ID: MW-1-2.5
Date Collected: 09/30/15 10:42
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-6
Matrix: Solid
Percent Solids: 86.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*10/03/15 15:42*	*10/06/15 22:12*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20000		15	15	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Antimony	1.6		0.10	0.021	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Arsenic	10		0.25	0.090	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Barium	150		0.25	0.039	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Cadmium	0.33		0.10	0.0095	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Chromium	23		0.25	0.032	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Copper	37		0.20	0.049	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Lead	100		0.25	0.024	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Magnesium	4700		50	1.3	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Nickel	21		0.25	0.041	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Silver	0.083	J	0.10	0.0060	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5
Zinc	160		2.5	0.56	mg/Kg	☼	10/15/15 08:55	10/15/15 23:13	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.094		0.022	0.0066	mg/Kg	☼	10/15/15 09:35	10/15/15 13:05	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.99				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	6700		2000	44	mg/Kg			10/14/15 20:03	1
TOC Result 2	7000		2000	44	mg/Kg			10/14/15 20:03	1
TOC Result 1	6400		2000	44	mg/Kg			10/14/15 20:03	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	13		0.10	0.10	%			10/08/15 09:44	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: BG-2-3
Date Collected: 09/30/15 12:57
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-7
Matrix: Solid
Percent Solids: 81.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		45	4.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
1,1,1-Trichloroethane	ND		45	6.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
1,1,2,2-Tetrachloroethane	ND		11	2.6	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
1,1,2-Trichloroethane	ND		13	3.1	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
1,1-Dichloroethane	ND		45	4.7	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
1,2,3-Trichloropropane	ND		45	13	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
1,2-Dibromoethane	ND		18	3.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
1,2-Dichloroethane	ND		18	3.7	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
1,2-Dichloropropane	ND		13	2.7	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
2-Butanone	ND		450	59	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
2-Chloroethyl vinyl ether	ND		220	7.0	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
2-Hexanone	ND		220	40	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
4-Methyl-2-pentanone	ND		220	33	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Acetone	ND		900	200	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Acrolein	ND		1300	100	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Acrylonitrile	ND		450	110	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Benzene	ND		18	3.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Bromochloromethane	ND		45	5.2	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Bromodichloromethane	ND		45	1.6	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Bromoform	ND		45	7.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Bromomethane	ND		160	15	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Carbon disulfide	ND		45	4.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Carbon tetrachloride	ND		22	4.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Chlorobenzene	ND		45	11	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Chlorodibromomethane	ND		22	3.1	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Chloroethane	ND		450	18	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Chloroform	ND		45	4.7	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Chloromethane	ND		110	11	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
cis-1,2-Dichloroethene	ND		45	5.5	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
cis-1,3-Dichloropropene	ND		18	2.0	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Dibromomethane	ND		67	15	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Dichlorodifluoromethane	ND		45	7.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Ethylbenzene	ND		45	2.2	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Iodomethane	ND		220	7.1	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Isopropylbenzene	ND		45	2.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Methyl tert-butyl ether	ND		45	6.7	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Methylene Chloride	ND		28	13	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
m-Xylene & p-Xylene	ND		45	3.4	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
o-Xylene	ND		45	3.4	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Styrene	ND		45	2.7	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
t-Butylbenzene	ND		45	3.5	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Tetrachloroethene	ND		22	5.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Toluene	ND		45	2.9	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
trans-1,2-Dichloroethene	ND		45	4.3	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
trans-1,3-Dichloropropene	ND		45	7.8	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
trans-1,4-Dichloro-2-butene	ND		220	18	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Trichloroethene	ND		27	3.5	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Trichlorofluoromethane	ND		45	6.6	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1
Vinyl acetate	ND		220	52	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: BG-2-3
Date Collected: 09/30/15 12:57
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-7
Matrix: Solid
Percent Solids: 81.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*	18	8.0	ug/Kg	☼	10/06/15 10:47	10/06/15 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*71 - 136*	*10/06/15 10:47*	*10/06/15 18:58*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 120*	*10/06/15 10:47*	*10/06/15 18:58*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/06/15 10:47*	*10/06/15 18:58*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*10/06/15 10:47*	*10/06/15 18:58*	*1*
Trifluorotoluene (Surr)	*93*		*65 - 140*	*10/06/15 10:47*	*10/06/15 18:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**5.9**	**J**	12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
2-Methylnaphthalene	ND		12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Dimethyl phthalate	ND		60	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Acenaphthylene	ND		12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Acenaphthene	ND		12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Diethyl phthalate	**50**	**J B**	120	9.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Fluorene	ND		12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Phenanthrene	**11**	**J**	12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Anthracene	ND		12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Di-n-butyl phthalate	ND		300	30	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Fluoranthene	**26**		12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Pyrene	**26**		12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Butyl benzyl phthalate	ND		120	30	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Benzo[a]anthracene	**12**		12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Chrysene	**18**		15	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Bis(2-ethylhexyl) phthalate	**32**	**J B**	360	30	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Di-n-octyl phthalate	**160**	**J**	300	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Benzo[b]fluoranthene	**24**		12	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Benzo[k]fluoranthene	**14**	**J**	15	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Benzo[a]pyrene	**17**	**J**	18	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Indeno[1,2,3-cd]pyrene	**11**	**J**	24	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Dibenz(a,h)anthracene	ND		24	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5
Benzo[g,h,i]perylene	**9.4**	**J**	15	3.0	ug/Kg	☼	10/04/15 09:47	10/17/15 04:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*128*		*42 - 151*	*10/04/15 09:47*	*10/17/15 04:53*	*5*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**1.9**	**J B**	4.5	0.56	mg/Kg	☼	10/06/15 13:42	10/06/15 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*10/06/15 13:42*	*10/06/15 23:21*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	H	1.2	0.18	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
2,4'-DDE	ND	H	1.2	0.18	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
2,4'-DDT	ND	H	1.2	0.18	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
4,4'-DDD	ND	H	1.2	0.088	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5

Client Sample ID: BG-2-3
Date Collected: 09/30/15 12:57
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-7
Matrix: Solid
Percent Solids: 81.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H	1.2	0.085	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
4,4'-DDT	ND	H	1.2	0.091	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Aldrin	ND	H	0.60	0.13	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
alpha-BHC	ND	H	0.60	0.17	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
alpha-Chlordane	ND	H	0.60	0.080	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
beta-BHC	ND	H	0.60	0.19	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Chlordane (technical)	ND	H	6.0	0.84	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
cis-Nonachlor	ND	H	1.2	0.12	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
delta-BHC	ND	H	0.60	0.089	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Dieldrin	ND	H	1.2	0.071	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Endosulfan I	ND	H	0.60	0.061	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Endosulfan II	ND	H	1.2	0.10	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Endosulfan sulfate	ND	H	1.2	0.11	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Endrin	ND	H	1.2	0.098	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Endrin aldehyde	ND	H	1.2	0.12	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Endrin ketone	ND	H	1.2	0.15	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
gamma-BHC (Lindane)	ND	H	0.60	0.18	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
gamma-Chlordane	ND	H	0.60	0.080	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Heptachlor	ND	H	1.2	0.28	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Heptachlor epoxide	ND	H	0.60	0.0018	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Methoxychlor	ND	H	6.0	0.15	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
oxy-Chlordane	ND	H	1.2	0.18	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
Toxaphene	ND	H	60	14	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5
trans-Nonachlor	ND	H	1.2	0.18	ug/Kg	☼	10/06/15 10:34	11/20/15 03:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*11*	*X*	*60 - 128*	*10/06/15 10:34*	*11/20/15 03:45*	*5*
Tetrachloro-m-xylene	*31*	*X*	*35 - 129*	*10/06/15 10:34*	*11/20/15 03:45*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.2	0.060	ug/Kg	☼	10/06/15 10:34	11/12/15 16:50	1
PCB-1221	ND		1.3	0.41	ug/Kg	☼	10/06/15 10:34	11/12/15 16:50	1
PCB-1232	ND		1.3	0.26	ug/Kg	☼	10/06/15 10:34	11/12/15 16:50	1
PCB-1242	ND		1.2	0.25	ug/Kg	☼	10/06/15 10:34	11/12/15 16:50	1
PCB-1248	ND		1.3	0.19	ug/Kg	☼	10/06/15 10:34	11/12/15 16:50	1
PCB-1254	**14**	**P**	1.2	0.11	ug/Kg	☼	10/06/15 10:34	11/12/15 16:50	1
PCB-1260	ND		1.2	0.16	ug/Kg	☼	10/06/15 10:34	11/12/15 16:50	1
PCB-1262	ND		1.2	0.23	ug/Kg	☼	10/06/15 10:34	11/12/15 16:50	1
PCB-1268	ND		1.2	0.25	ug/Kg	☼	10/06/15 10:34	11/12/15 16:50	1
Polychlorinated biphenyls, Total	**14**		1.3	0.41	ug/Kg	☼	10/06/15 10:34	11/12/15 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*50 - 140*	*10/06/15 10:34*	*11/12/15 16:50*	*1*
Tetrachloro-m-xylene	*64*		*45 - 135*	*10/06/15 10:34*	*11/12/15 16:50*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**22**	**J**	30	4.3	mg/Kg	☼	10/03/15 15:42	10/06/15 22:30	1
Motor Oil (>C24-C36)	**99**		60	11	mg/Kg	☼	10/03/15 15:42	10/06/15 22:30	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: BG-2-3
Date Collected: 09/30/15 12:57
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-7
Matrix: Solid
Percent Solids: 81.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*10/03/15 15:42*	*10/06/15 22:30*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20000		17	17	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Antimony	0.99		0.11	0.023	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Arsenic	8.2		0.28	0.10	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Barium	210		0.28	0.043	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Cadmium	0.54		0.11	0.011	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Chromium	34		0.28	0.035	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Copper	30		0.22	0.054	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Lead	68		0.28	0.027	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Magnesium	4500		55	1.5	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Nickel	18		0.28	0.045	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Silver	0.14		0.11	0.0066	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5
Zinc	140		2.8	0.62	mg/Kg	☼	10/15/15 08:55	10/15/15 23:17	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.086		0.023	0.0068	mg/Kg	☼	10/15/15 09:35	10/15/15 13:08	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.18				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	7100		2000	44	mg/Kg			10/14/15 20:08	1
TOC Result 2	7100		2000	44	mg/Kg			10/14/15 20:08	1
TOC Result 1	7200		2000	44	mg/Kg			10/14/15 20:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	18		0.10	0.10	%			10/08/15 09:44	1

Client Sample ID: MW-1-22-A
Date Collected: 09/29/15 16:17
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-9
Matrix: Solid
Percent Solids: 72.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		54	8.8	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Chloromethane	ND		130	14	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Vinyl chloride	ND		22	9.6	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Bromomethane	ND		190	18	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Chloroethane	ND		540	21	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Trichlorofluoromethane	ND		54	8.0	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Acrolein	ND		1600	120	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Iodomethane	ND		270	8.5	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Carbon disulfide	ND		54	5.9	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Acetone	ND		1100	230	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Methylene Chloride	**34**		34	15	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Methyl tert-butyl ether	ND		54	8.1	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
trans-1,2-Dichloroethene	ND		54	5.1	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Acrylonitrile	ND		540	130	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
1,1-Dichloroethane	ND		54	5.7	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Vinyl acetate	ND		270	62	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
cis-1,2-Dichloroethene	ND		54	6.6	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
2-Butanone	ND		540	70	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Bromochloromethane	ND		54	6.2	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Chloroform	ND		54	5.7	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
1,1,1-Trichloroethane	ND		54	7.5	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Carbon tetrachloride	ND		27	5.1	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Benzene	ND		22	4.7	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
1,2-Dichloroethane	ND		22	4.4	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Trichloroethene	ND		32	4.2	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
1,2-Dichloropropane	ND		16	3.2	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Dibromomethane	ND		81	18	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Bromodichloromethane	ND		54	1.9	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
2-Chloroethyl vinyl ether	ND		270	8.4	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
cis-1,3-Dichloropropene	ND		22	2.4	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
4-Methyl-2-pentanone	ND		270	40	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Toluene	ND		54	3.5	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
trans-1,3-Dichloropropene	ND		54	9.4	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
1,1,2-Trichloroethane	ND		16	3.8	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Tetrachloroethene	ND		27	7.1	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
2-Hexanone	ND		270	48	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Chlorodibromomethane	ND		27	3.8	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
1,2-Dibromoethane	ND		22	4.6	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Chlorobenzene	ND		54	13	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
1,1,1,2-Tetrachloroethane	ND		54	5.1	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Ethylbenzene	ND		54	2.7	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
m-Xylene & p-Xylene	ND		54	4.0	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
o-Xylene	ND		54	4.0	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Styrene	ND		54	3.2	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Bromoform	ND		54	8.8	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
Isopropylbenzene	ND		54	3.5	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
1,1,2,2-Tetrachloroethane	ND		13	3.1	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
1,2,3-Trichloropropane	ND		54	15	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1
trans-1,4-Dichloro-2-butene	ND		270	22	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-1-22-A
Date Collected: 09/29/15 16:17
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-9
Matrix: Solid
Percent Solids: 72.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butylbenzene	ND		54	4.2	ug/Kg	☼	10/07/15 15:52	10/08/15 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*99*		*65 - 140*	*10/07/15 15:52*	*10/08/15 16:25*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*10/07/15 15:52*	*10/08/15 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*71 - 136*	*10/07/15 15:52*	*10/08/15 16:25*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*10/07/15 15:52*	*10/08/15 16:25*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 132*	*10/07/15 15:52*	*10/08/15 16:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
2-Methylnaphthalene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Dimethyl phthalate	ND		67	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Acenaphthylene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Acenaphthene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Diethyl phthalate	**48**	**J B**	130	10	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Fluorene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Phenanthrene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Anthracene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Di-n-butyl phthalate	ND		340	34	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Fluoranthene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Pyrene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Butyl benzyl phthalate	ND		130	34	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Benzo[a]anthracene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Chrysene	ND		17	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Bis(2-ethylhexyl) phthalate	ND		400	34	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Di-n-octyl phthalate	ND		340	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Benzo[b]fluoranthene	ND		13	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Benzo[k]fluoranthene	ND		17	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Benzo[a]pyrene	ND		20	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Indeno[1,2,3-cd]pyrene	ND		27	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Dibenz(a,h)anthracene	ND		27	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5
Benzo[g,h,i]perylene	ND		17	3.4	ug/Kg	☼	10/04/15 09:47	10/17/15 05:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*124*		*42 - 151*	*10/04/15 09:47*	*10/17/15 05:19*	*5*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND	H	7.0	0.87	mg/Kg	☼	10/13/15 15:51	10/14/15 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*10/13/15 15:51*	*10/14/15 01:24*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.066	ug/Kg	☼	10/06/15 10:34	11/12/15 17:07	1
PCB-1221	ND		1.4	0.45	ug/Kg	☼	10/06/15 10:34	11/12/15 17:07	1
PCB-1232	ND		1.4	0.29	ug/Kg	☼	10/06/15 10:34	11/12/15 17:07	1
PCB-1242	ND		1.3	0.28	ug/Kg	☼	10/06/15 10:34	11/12/15 17:07	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-1-22-A
Date Collected: 09/29/15 16:17
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-9
Matrix: Solid
Percent Solids: 72.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		1.4	0.21	ug/Kg	☼	10/06/15 10:34	11/12/15 17:07	1
PCB-1254	**7.4**		1.3	0.12	ug/Kg	☼	10/06/15 10:34	11/12/15 17:07	1
PCB-1260	ND		1.3	0.17	ug/Kg	☼	10/06/15 10:34	11/12/15 17:07	1
PCB-1262	ND		1.3	0.25	ug/Kg	☼	10/06/15 10:34	11/12/15 17:07	1
PCB-1268	ND		1.3	0.28	ug/Kg	☼	10/06/15 10:34	11/12/15 17:07	1
Polychlorinated biphenyls, Total	**7.4**		1.4	0.45	ug/Kg	☼	10/06/15 10:34	11/12/15 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*50 - 140*	*10/06/15 10:34*	*11/12/15 17:07*	*1*
Tetrachloro-m-xylene	*43*	*X*	*45 - 135*	*10/06/15 10:34*	*11/12/15 17:07*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		31	4.5	mg/Kg	☼	10/03/15 15:42	10/06/15 23:06	1
Motor Oil (>C24-C36)	ND		63	11	mg/Kg	☼	10/03/15 15:42	10/06/15 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*10/03/15 15:42*	*10/06/15 23:06*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		18	18	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Antimony	**0.67**		0.12	0.025	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Arsenic	**8.9**		0.30	0.11	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Barium	**180**		0.30	0.047	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Cadmium	**0.25**		0.12	0.011	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Chromium	**20**		0.30	0.038	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Copper	**30**		0.24	0.059	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Lead	**15**		0.30	0.029	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Magnesium	**7300**		60	1.6	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Nickel	**22**		0.30	0.048	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Silver	**0.064**	**J**	0.12	0.0072	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5
Zinc	**83**		3.0	0.67	mg/Kg	☼	10/15/15 08:55	10/15/15 23:22	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.027	0.0081	mg/Kg	☼	10/15/15 09:35	10/15/15 13:10	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.55**				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**550**	**J**	2000	44	mg/Kg			10/12/15 15:26	1
TOC Result 2	**590**	**J**	2000	44	mg/Kg			10/12/15 15:26	1
TOC Result 1	**500**	**J**	2000	44	mg/Kg			10/12/15 15:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**73**		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	**27**		0.10	0.10	%			10/08/15 09:44	1

Client Sample ID: BG-1-7-A
Date Collected: 09/30/15 09:16
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-11
Matrix: Solid
Percent Solids: 76.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	65	11	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Chloromethane	ND	H	160	16	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Vinyl chloride	ND	H	26	12	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Bromomethane	ND	H	230	22	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Chloroethane	ND	H	650	26	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Trichlorofluoromethane	ND	H	65	9.6	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Acrolein	ND	H	2000	150	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Iodomethane	ND	H	330	10	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Carbon disulfide	ND	H	65	7.2	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Acetone	ND	H	1300	280	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Methyl tert-butyl ether	ND	H	65	9.8	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
trans-1,2-Dichloroethene	ND	H	65	6.2	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Acrylonitrile	ND	H	650	160	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
1,1-Dichloroethane	ND	H	65	6.8	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Vinyl acetate	ND	H	330	75	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
cis-1,2-Dichloroethene	ND	H	65	8.0	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
2-Butanone	ND	H	650	85	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Bromochloromethane	ND	H	65	7.5	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Chloroform	ND	H	65	6.8	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
1,1,1-Trichloroethane	ND	H	65	9.1	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Carbon tetrachloride	ND	H	33	6.2	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Benzene	ND	H	26	5.7	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
1,2-Dichloroethane	ND	H	26	5.4	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Trichloroethene	ND	H	39	5.1	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
1,2-Dichloropropane	ND	H	20	3.9	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Dibromomethane	ND	H	98	21	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Bromodichloromethane	ND	H	65	2.3	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
2-Chloroethyl vinyl ether	ND	H	330	10	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
cis-1,3-Dichloropropene	ND	H	26	2.9	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
4-Methyl-2-pentanone	ND	H	330	48	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Toluene	ND	H	65	4.2	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
trans-1,3-Dichloropropene	ND	H	65	11	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
1,1,2-Trichloroethane	ND	H	20	4.6	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Tetrachloroethene	ND	H	33	8.6	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
2-Hexanone	ND	H	330	58	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Chlorodibromomethane	ND	H	33	4.6	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
1,2-Dibromoethane	ND	H	26	5.5	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Chlorobenzene	ND	H	65	16	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
1,1,1,2-Tetrachloroethane	ND	H	65	6.2	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Ethylbenzene	ND	H	65	3.3	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
m-Xylene & p-Xylene	ND	H	65	4.9	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
o-Xylene	ND	H	65	4.9	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Styrene	ND	H	65	3.9	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Bromoform	ND	H	65	11	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
Isopropylbenzene	ND	H	65	4.2	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
1,1,2,2-Tetrachloroethane	ND	H	16	3.8	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
1,2,3-Trichloropropane	ND	H	65	19	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
trans-1,4-Dichloro-2-butene	ND	H	330	26	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1
t-Butylbenzene	ND	H	65	5.1	ug/Kg	☼	10/12/15 10:34	10/12/15 18:18	1

Client Sample ID: BG-1-7-A
Date Collected: 09/30/15 09:16
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-11
Matrix: Solid
Percent Solids: 76.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	93		65 - 140	10/12/15 10:34	10/12/15 18:18	1
Toluene-d8 (Surr)	105		80 - 120	10/12/15 10:34	10/12/15 18:18	1
1,2-Dichloroethane-d4 (Surr)	98		71 - 136	10/12/15 10:34	10/12/15 18:18	1
4-Bromofluorobenzene (Surr)	99		70 - 120	10/12/15 10:34	10/12/15 18:18	1
Dibromofluoromethane (Surr)	95		75 - 132	10/12/15 10:34	10/12/15 18:18	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**25**	**J H B**	41	19	ug/Kg	☼	10/12/15 10:34	10/22/15 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	98		65 - 140	10/12/15 10:34	10/22/15 16:38	1
Toluene-d8 (Surr)	103		80 - 120	10/12/15 10:34	10/22/15 16:38	1
1,2-Dichloroethane-d4 (Surr)	99		71 - 136	10/12/15 10:34	10/22/15 16:38	1
4-Bromofluorobenzene (Surr)	100		70 - 120	10/12/15 10:34	10/22/15 16:38	1
Dibromofluoromethane (Surr)	99		75 - 132	10/12/15 10:34	10/22/15 16:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
2-Methylnaphthalene	ND		2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Dimethyl phthalate	ND		13	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Acenaphthylene	ND		2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Acenaphthene	ND		2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Diethyl phthalate	**20**	**J B**	25	1.9	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Fluorene	ND		2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Phenanthrene	ND		2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Anthracene	ND		2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Di-n-butyl phthalate	**11**	**J**	63	6.3	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Fluoranthene	**0.67**	**J**	2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Pyrene	ND		2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Butyl benzyl phthalate	**18**	**J B**	25	6.3	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Benzo[a]anthracene	**0.77**	**J**	2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Chrysene	ND		3.2	0.63	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1
Bis(2-ethylhexyl) phthalate	**23**	**J B**	76	6.3	ug/Kg	☼	10/10/15 14:08	10/21/15 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	109		42 - 151	10/10/15 14:08	10/21/15 07:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	**3.9**	**J F2**	63	0.63	ug/Kg	☼	10/10/15 14:08	10/25/15 17:42	1
Benzo[b]fluoranthene	ND		2.5	0.63	ug/Kg	☼	10/10/15 14:08	10/25/15 17:42	1
Benzo[k]fluoranthene	ND	F1	3.2	0.63	ug/Kg	☼	10/10/15 14:08	10/25/15 17:42	1
Benzo[a]pyrene	ND		3.8	0.63	ug/Kg	☼	10/10/15 14:08	10/25/15 17:42	1
Indeno[1,2,3-cd]pyrene	ND	F1 F2	5.1	0.63	ug/Kg	☼	10/10/15 14:08	10/25/15 17:42	1
Dibenz(a,h)anthracene	ND	F1 F2	5.1	0.63	ug/Kg	☼	10/10/15 14:08	10/25/15 17:42	1
Benzo[g,h,i]perylene	ND	F1 F2	3.2	0.63	ug/Kg	☼	10/10/15 14:08	10/25/15 17:42	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: BG-1-7-A
Date Collected: 09/30/15 09:16
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-11
Matrix: Solid
Percent Solids: 76.0

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND	H	6.5	0.81	mg/Kg	☼	10/13/15 15:51	10/14/15 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*	*10/13/15 15:51*	*10/14/15 01:57*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.26	0.039	ug/Kg	☼	10/10/15 13:28	11/19/15 04:20	1
2,4'-DDE	ND		0.26	0.039	ug/Kg	☼	10/10/15 13:28	11/19/15 04:20	1
2,4'-DDT	ND		0.26	0.039	ug/Kg	☼	10/10/15 13:28	11/19/15 04:20	1
4,4'-DDD	ND		0.26	0.019	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
4,4'-DDE	ND		0.26	0.018	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
4,4'-DDT	**0.036**	**J**	0.26	0.020	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Aldrin	ND		0.13	0.029	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
alpha-BHC	ND		0.13	0.036	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
alpha-Chlordane	ND		0.13	0.017	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
beta-BHC	ND		0.13	0.042	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Chlordane (technical)	ND		1.3	0.18	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
cis-Nonachlor	ND		0.26	0.025	ug/Kg	☼	10/10/15 13:28	11/19/15 04:20	1
delta-BHC	ND		0.13	0.019	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Dieldrin	ND		0.26	0.015	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Endosulfan I	ND		0.13	0.013	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Endosulfan II	**0.15**	**J**	0.26	0.022	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Endosulfan sulfate	ND		0.26	0.024	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Endrin	**0.021**	**J**	0.26	0.021	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Endrin aldehyde	ND		0.26	0.026	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Endrin ketone	**0.074**	**J B**	0.26	0.034	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
gamma-BHC (Lindane)	ND		0.13	0.039	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
gamma-Chlordane	ND		0.13	0.017	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Heptachlor	ND		0.26	0.060	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Heptachlor epoxide	**0.0022**	**J B**	0.13	0.00039	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
Methoxychlor	**0.078**	**J**	1.3	0.034	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
oxy-Chlordane	ND		0.26	0.039	ug/Kg	☼	10/10/15 13:28	11/19/15 04:20	1
Toxaphene	ND		13	3.0	ug/Kg	☼	10/10/15 13:28	10/22/15 21:39	1
trans-Nonachlor	ND		0.26	0.039	ug/Kg	☼	10/10/15 13:28	11/19/15 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*49*	*X*	*60 - 128*	*10/10/15 13:28*	*10/22/15 21:39*	*1*
Tetrachloro-m-xylene	*66*		*35 - 129*	*10/10/15 13:28*	*10/22/15 21:39*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.065	ug/Kg	☼	10/10/15 13:28	10/20/15 22:15	1
PCB-1221	ND		1.4	0.44	ug/Kg	☼	10/10/15 13:28	10/20/15 22:15	1
PCB-1232	ND		1.4	0.29	ug/Kg	☼	10/10/15 13:28	10/20/15 22:15	1
PCB-1242	ND		1.3	0.27	ug/Kg	☼	10/10/15 13:28	10/20/15 22:15	1
PCB-1248	**2.0**		1.4	0.21	ug/Kg	☼	10/10/15 13:28	10/20/15 22:15	1
PCB-1254	ND		1.3	0.12	ug/Kg	☼	10/10/15 13:28	10/20/15 22:15	1
PCB-1260	ND		1.3	0.17	ug/Kg	☼	10/10/15 13:28	10/20/15 22:15	1
PCB-1262	ND		1.3	0.25	ug/Kg	☼	10/10/15 13:28	10/20/15 22:15	1

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: BG-1-7-A
Date Collected: 09/30/15 09:16
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-11
Matrix: Solid
Percent Solids: 76.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		1.3	0.27	ug/Kg	☼	10/10/15 13:28	10/20/15 22:15	1
Polychlorinated biphenyls, Total	**2.0**		1.4	0.44	ug/Kg	☼	10/10/15 13:28	10/20/15 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*50 - 140*	*10/10/15 13:28*	*10/20/15 22:15*	*1*
Tetrachloro-m-xylene	*69*		*45 - 135*	*10/10/15 13:28*	*10/20/15 22:15*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**5.4**	**J**	32	4.5	mg/Kg	☼	10/11/15 08:58	10/12/15 19:31	1
Motor Oil (>C24-C36)	ND		63	11	mg/Kg	☼	10/11/15 08:58	10/12/15 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*10/11/15 08:58*	*10/12/15 19:31*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**26000**		18	18	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Antimony	**0.75**		0.12	0.025	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Arsenic	**13**		0.29	0.11	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Barium	**210**		0.29	0.046	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Cadmium	**0.24**		0.12	0.011	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Chromium	**22**		0.29	0.037	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Copper	**31**		0.23	0.057	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Lead	**14**		0.29	0.028	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Magnesium	**6900**		59	1.5	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Nickel	**21**		0.29	0.047	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Silver	**0.042**	**J**	0.12	0.0070	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5
Zinc	**85**		2.9	0.66	mg/Kg	☼	10/15/15 08:55	10/15/15 23:26	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.025	0.0075	mg/Kg	☼	10/15/15 09:35	10/15/15 13:13	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.53**				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**980**	**J**	2000	44	mg/Kg			10/14/15 20:13	1
TOC Result 2	**940**	**J**	2000	44	mg/Kg			10/14/15 20:13	1
TOC Result 1	**1000**	**J**	2000	44	mg/Kg			10/14/15 20:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**76**		0.10	0.10	%			10/09/15 17:13	1
Percent Moisture	**24**		0.10	0.10	%			10/09/15 17:13	1

Client Sample ID: MW-5-17-A
Date Collected: 09/30/15 11:23
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-15
Matrix: Solid
Percent Solids: 77.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	64	10	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Chloromethane	ND	H	160	16	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Vinyl chloride	ND	H	25	11	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Bromomethane	ND	H	220	21	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Chloroethane	ND	H	640	25	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Trichlorofluoromethane	ND	H	64	9.4	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Acrolein	ND	H	1900	140	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Iodomethane	ND	H	320	10	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Carbon disulfide	ND	H	64	7.0	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Acetone	ND	H	1300	280	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Methyl tert-butyl ether	ND	H	64	9.6	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
trans-1,2-Dichloroethene	ND	H	64	6.0	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Acrylonitrile	ND	H	640	150	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
1,1-Dichloroethane	ND	H	64	6.7	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Vinyl acetate	ND	H	320	73	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
cis-1,2-Dichloroethene	ND	H	64	7.8	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
2-Butanone	ND	H	640	83	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Bromochloromethane	ND	H	64	7.3	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Chloroform	ND	H	64	6.7	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
1,1,1-Trichloroethane	ND	H	64	8.9	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Carbon tetrachloride	ND	H	32	6.0	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Benzene	ND	H	25	5.6	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
1,2-Dichloroethane	ND	H	25	5.3	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Trichloroethene	ND	H	38	4.9	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
1,2-Dichloropropane	ND	H	19	3.8	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Dibromomethane	ND	H	96	21	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Bromodichloromethane	ND	H	64	2.2	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
2-Chloroethyl vinyl ether	ND	H	320	9.9	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
cis-1,3-Dichloropropene	ND	H	25	2.9	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
4-Methyl-2-pentanone	ND	H	320	47	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Toluene	ND	H	64	4.1	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
trans-1,3-Dichloropropene	ND	H	64	11	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
1,1,2-Trichloroethane	ND	H	19	4.5	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Tetrachloroethene	ND	H	32	8.4	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
2-Hexanone	ND	H	320	57	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Chlorodibromomethane	ND	H	32	4.5	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
1,2-Dibromoethane	ND	H	25	5.4	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Chlorobenzene	ND	H	64	16	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
1,1,1,2-Tetrachloroethane	ND	H	64	6.0	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Ethylbenzene	ND	H	64	3.2	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
m-Xylene & p-Xylene	ND	H	64	4.8	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
o-Xylene	ND	H	64	4.8	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Styrene	ND	H	64	3.8	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Bromoform	ND	H	64	10	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
Isopropylbenzene	ND	H	64	4.1	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
1,1,2,2-Tetrachloroethane	ND	H	16	3.7	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
1,2,3-Trichloropropane	ND	H	64	18	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
trans-1,4-Dichloro-2-butene	ND	H	320	25	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1
t-Butylbenzene	ND	H	64	4.9	ug/Kg	☼	10/12/15 10:34	10/12/15 18:51	1

Client Sample ID: MW-5-17-A

Date Collected: 09/30/15 11:23
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-15

Matrix: Solid
Percent Solids: 77.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	95		65 - 140	10/12/15 10:34	10/12/15 18:51	1
Toluene-d8 (Surr)	102		80 - 120	10/12/15 10:34	10/12/15 18:51	1
1,2-Dichloroethane-d4 (Surr)	95		71 - 136	10/12/15 10:34	10/12/15 18:51	1
4-Bromofluorobenzene (Surr)	98		70 - 120	10/12/15 10:34	10/12/15 18:51	1
Dibromofluoromethane (Surr)	97		75 - 132	10/12/15 10:34	10/12/15 18:51	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**32**	**J H B**	40	18	ug/Kg	☼	10/12/15 10:34	10/22/15 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	99		65 - 140	10/12/15 10:34	10/22/15 17:11	1
Toluene-d8 (Surr)	102		80 - 120	10/12/15 10:34	10/22/15 17:11	1
1,2-Dichloroethane-d4 (Surr)	98		71 - 136	10/12/15 10:34	10/22/15 17:11	1
4-Bromofluorobenzene (Surr)	104		70 - 120	10/12/15 10:34	10/22/15 17:11	1
Dibromofluoromethane (Surr)	97		75 - 132	10/12/15 10:34	10/22/15 17:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
2-Methylnaphthalene	ND		2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Dimethyl phthalate	ND		13	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Acenaphthylene	ND		2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Acenaphthene	ND		2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Diethyl phthalate	**19**	**J B**	26	1.9	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Fluorene	ND		2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Phenanthrene	**0.74**	**J**	2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Anthracene	ND		2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Di-n-butyl phthalate	**12**	**J**	64	6.4	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Fluoranthene	**0.64**	**J**	2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Pyrene	**0.67**	**J**	2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Butyl benzyl phthalate	**17**	**J B**	26	6.4	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Benzo[a]anthracene	**0.87**	**J**	2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Chrysene	ND		3.2	0.64	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1
Bis(2-ethylhexyl) phthalate	**18**	**J B**	77	6.4	ug/Kg	☼	10/10/15 14:08	10/21/15 09:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	106		42 - 151	10/10/15 14:08	10/21/15 09:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	**6.2**	**J**	64	0.64	ug/Kg	☼	10/10/15 14:08	10/25/15 18:59	1
Benzo[b]fluoranthene	ND		2.6	0.64	ug/Kg	☼	10/10/15 14:08	10/25/15 18:59	1
Benzo[k]fluoranthene	ND		3.2	0.64	ug/Kg	☼	10/10/15 14:08	10/25/15 18:59	1
Benzo[a]pyrene	ND		3.9	0.64	ug/Kg	☼	10/10/15 14:08	10/25/15 18:59	1
Indeno[1,2,3-cd]pyrene	ND		5.1	0.64	ug/Kg	☼	10/10/15 14:08	10/25/15 18:59	1
Dibenz(a,h)anthracene	ND		5.1	0.64	ug/Kg	☼	10/10/15 14:08	10/25/15 18:59	1
Benzo[g,h,i]perylene	**1.0**	**J**	3.2	0.64	ug/Kg	☼	10/10/15 14:08	10/25/15 18:59	1

Client Sample ID: MW-5-17-A

Date Collected: 09/30/15 11:23
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-15

Matrix: Solid
Percent Solids: 77.0

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND	H	6.4	0.80	mg/Kg	☼	10/13/15 15:51	10/14/15 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*	*10/13/15 15:51*	*10/14/15 02:30*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.25	0.038	ug/Kg	☼	10/10/15 13:28	11/19/15 04:38	1
2,4'-DDE	ND		0.25	0.038	ug/Kg	☼	10/10/15 13:28	11/19/15 04:38	1
2,4'-DDT	ND		0.25	0.038	ug/Kg	☼	10/10/15 13:28	11/19/15 04:38	1
4,4'-DDD	**0.036**	**J**	0.25	0.019	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
4,4'-DDE	**0.079**	**J**	0.25	0.018	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
4,4'-DDT	ND		0.25	0.019	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Aldrin	ND		0.13	0.028	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
alpha-BHC	ND		0.13	0.035	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
alpha-Chlordane	ND		0.13	0.017	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
beta-BHC	ND		0.13	0.041	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Chlordane (technical)	ND		1.3	0.18	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
cis-Nonachlor	ND		0.25	0.024	ug/Kg	☼	10/10/15 13:28	11/19/15 04:38	1
delta-BHC	ND		0.13	0.019	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Dieldrin	ND		0.25	0.015	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Endosulfan I	ND		0.13	0.013	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Endosulfan II	**0.083**	**J**	0.25	0.022	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Endosulfan sulfate	ND		0.25	0.023	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Endrin	**0.091**	**J**	0.25	0.021	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Endrin aldehyde	ND		0.25	0.025	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Endrin ketone	**0.077**	**J B**	0.25	0.033	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
gamma-BHC (Lindane)	ND		0.13	0.038	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
gamma-Chlordane	**0.055**	**J**	0.13	0.017	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Heptachlor	**0.087**	**J B**	0.25	0.059	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Heptachlor epoxide	ND		0.13	0.00038	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
Methoxychlor	**0.046**	**J**	1.3	0.033	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
oxy-Chlordane	ND		0.25	0.038	ug/Kg	☼	10/10/15 13:28	11/19/15 04:38	1
Toxaphene	ND		13	2.9	ug/Kg	☼	10/10/15 13:28	10/22/15 21:56	1
trans-Nonachlor	ND		0.25	0.038	ug/Kg	☼	10/10/15 13:28	11/19/15 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*	*X*	*60 - 128*	*10/10/15 13:28*	*10/22/15 21:56*	*1*
Tetrachloro-m-xylene	*58*		*35 - 129*	*10/10/15 13:28*	*10/22/15 21:56*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.3	0.063	ug/Kg	☼	10/10/15 13:28	10/20/15 22:32	1
PCB-1221	ND		1.4	0.43	ug/Kg	☼	10/10/15 13:28	10/20/15 22:32	1
PCB-1232	ND		1.4	0.28	ug/Kg	☼	10/10/15 13:28	10/20/15 22:32	1
PCB-1242	ND		1.3	0.27	ug/Kg	☼	10/10/15 13:28	10/20/15 22:32	1
PCB-1248	**2.4**		1.4	0.20	ug/Kg	☼	10/10/15 13:28	10/20/15 22:32	1
PCB-1254	ND		1.3	0.11	ug/Kg	☼	10/10/15 13:28	10/20/15 22:32	1
PCB-1260	ND		1.3	0.16	ug/Kg	☼	10/10/15 13:28	10/20/15 22:32	1
PCB-1262	ND		1.3	0.24	ug/Kg	☼	10/10/15 13:28	10/20/15 22:32	1

Client Sample ID: MW-5-17-A

Date Collected: 09/30/15 11:23
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-15

Matrix: Solid
Percent Solids: 77.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	ND		1.3	0.27	ug/Kg	☼	10/10/15 13:28	10/20/15 22:32	1
Polychlorinated biphenyls, Total	**2.4**		1.4	0.43	ug/Kg	☼	10/10/15 13:28	10/20/15 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*50 - 140*	*10/10/15 13:28*	*10/20/15 22:32*	*1*
Tetrachloro-m-xylene	*59*		*45 - 135*	*10/10/15 13:28*	*10/20/15 22:32*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		31	4.5	mg/Kg	☼	10/11/15 08:58	10/12/15 19:49	1
Motor Oil (>C24-C36)	ND		63	11	mg/Kg	☼	10/11/15 08:58	10/12/15 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*10/11/15 08:58*	*10/12/15 19:49*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20000**		17	17	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Antimony	**0.59**		0.11	0.024	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Arsenic	**9.9**		0.29	0.10	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Barium	**150**		0.29	0.045	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Cadmium	**0.26**		0.11	0.011	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Chromium	**18**		0.29	0.036	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Copper	**26**		0.23	0.056	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Lead	**12**		0.29	0.028	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Magnesium	**6600**		57	1.5	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Nickel	**19**		0.29	0.047	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Silver	**0.086**	**J**	0.11	0.0069	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5
Zinc	**80**		2.9	0.64	mg/Kg	☼	10/15/15 08:55	10/15/15 23:30	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.026	0.0078	mg/Kg	☼	10/15/15 09:35	10/15/15 13:15	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.48**				SU			10/09/15 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**360**	**J**	2000	44	mg/Kg			10/14/15 20:24	1
TOC Result 2	**360**	**J**	2000	44	mg/Kg			10/14/15 20:24	1
TOC Result 1	**360**	**J**	2000	44	mg/Kg			10/14/15 20:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**77**		0.10	0.10	%			10/09/15 17:13	1
Percent Moisture	**23**		0.10	0.10	%			10/09/15 17:13	1

Client Sample ID: MW-5-22-A
Date Collected: 09/30/15 11:36
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-16
Matrix: Solid
Percent Solids: 70.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		56	9.1	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Chloromethane	ND		140	14	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Vinyl chloride	ND		22	9.9	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Bromomethane	ND		200	19	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Chloroethane	ND		560	22	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Trichlorofluoromethane	ND		56	8.3	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Acrolein	ND		1700	130	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Iodomethane	ND		280	8.8	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Carbon disulfide	ND		56	6.2	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Acetone	ND		1100	240	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Methylene Chloride	ND		35	16	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Methyl tert-butyl ether	ND		56	8.4	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
trans-1,2-Dichloroethene	ND		56	5.3	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Acrylonitrile	ND		560	130	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
1,1-Dichloroethane	ND		56	5.9	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Vinyl acetate	ND		280	64	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
cis-1,2-Dichloroethene	ND		56	6.9	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
2-Butanone	ND		560	73	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Bromochloromethane	ND		56	6.4	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Chloroform	ND		56	5.9	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
1,1,1-Trichloroethane	ND		56	7.8	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Carbon tetrachloride	ND		28	5.3	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Benzene	ND		22	4.9	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
1,2-Dichloroethane	ND		22	4.6	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Trichloroethene	ND		34	4.3	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
1,2-Dichloropropane	ND		17	3.4	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Dibromomethane	ND		84	18	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Bromodichloromethane	ND		56	2.0	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
2-Chloroethyl vinyl ether	ND		280	8.7	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
cis-1,3-Dichloropropene	ND		22	2.5	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
4-Methyl-2-pentanone	ND		280	41	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Toluene	ND		56	3.6	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
trans-1,3-Dichloropropene	ND		56	9.8	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
1,1,2-Trichloroethane	ND		17	3.9	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Tetrachloroethene	ND		28	7.4	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
2-Hexanone	ND		280	50	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Chlorodibromomethane	ND		28	3.9	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
1,2-Dibromoethane	ND		22	4.8	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Chlorobenzene	ND		56	14	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
1,1,1,2-Tetrachloroethane	ND		56	5.3	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Ethylbenzene	ND		56	2.8	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
m-Xylene & p-Xylene	ND		56	4.2	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
o-Xylene	ND		56	4.2	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Styrene	ND		56	3.4	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Bromoform	ND		56	9.1	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
Isopropylbenzene	ND		56	3.6	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
1,1,2,2-Tetrachloroethane	ND		14	3.2	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
1,2,3-Trichloropropane	ND		56	16	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1
trans-1,4-Dichloro-2-butene	ND		280	22	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1

Client Sample ID: MW-5-22-A
Date Collected: 09/30/15 11:36
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-16
Matrix: Solid
Percent Solids: 70.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butylbenzene	ND		56	4.3	ug/Kg	☼	10/07/15 15:52	10/08/15 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*96*		*65 - 140*	*10/07/15 15:52*	*10/08/15 16:52*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*10/07/15 15:52*	*10/08/15 16:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 136*	*10/07/15 15:52*	*10/08/15 16:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*	*10/07/15 15:52*	*10/08/15 16:52*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 132*	*10/07/15 15:52*	*10/08/15 16:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
2-Methylnaphthalene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Dimethyl phthalate	ND		14	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Acenaphthylene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Acenaphthene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Diethyl phthalate	**10**	**J B**	28	2.1	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Fluorene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Phenanthrene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Anthracene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Di-n-butyl phthalate	**14**	**J B**	69	6.9	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Fluoranthene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Pyrene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Butyl benzyl phthalate	ND		28	6.9	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Benzo[a]anthracene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Chrysene	ND		3.5	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Bis(2-ethylhexyl) phthalate	**12**	**J B**	83	6.9	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Di-n-octyl phthalate	**2.5**	**J**	69	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Benzo[b]fluoranthene	ND		2.8	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Benzo[k]fluoranthene	ND		3.5	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Benzo[a]pyrene	ND		4.2	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Indeno[1,2,3-cd]pyrene	ND		5.6	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Dibenz(a,h)anthracene	ND		5.6	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1
Benzo[g,h,i]perylene	ND		3.5	0.69	ug/Kg	☼	10/04/15 09:47	10/17/15 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*121*		*42 - 151*	*10/04/15 09:47*	*10/17/15 05:44*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**0.95**	**J B**	7.2	0.90	mg/Kg	☼	10/06/15 13:45	10/07/15 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*	*10/06/15 13:45*	*10/07/15 00:23*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.4	0.069	ug/Kg	☼	10/06/15 10:34	11/12/15 17:24	1
PCB-1221	ND		1.5	0.47	ug/Kg	☼	10/06/15 10:34	11/12/15 17:24	1
PCB-1232	ND		1.5	0.30	ug/Kg	☼	10/06/15 10:34	11/12/15 17:24	1
PCB-1242	ND		1.4	0.29	ug/Kg	☼	10/06/15 10:34	11/12/15 17:24	1

Client Sample ID: MW-5-22-A
Date Collected: 09/30/15 11:36
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-16
Matrix: Solid
Percent Solids: 70.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		1.5	0.22	ug/Kg	☼	10/06/15 10:34	11/12/15 17:24	1
PCB-1254	ND		1.4	0.12	ug/Kg	☼	10/06/15 10:34	11/12/15 17:24	1
PCB-1260	ND		1.4	0.18	ug/Kg	☼	10/06/15 10:34	11/12/15 17:24	1
PCB-1262	ND		1.4	0.26	ug/Kg	☼	10/06/15 10:34	11/12/15 17:24	1
PCB-1268	ND		1.4	0.29	ug/Kg	☼	10/06/15 10:34	11/12/15 17:24	1
Polychlorinated biphenyls, Total	ND		1.5	0.47	ug/Kg	☼	10/06/15 10:34	11/12/15 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*50 - 140*	*10/06/15 10:34*	*11/12/15 17:24*	*1*
Tetrachloro-m-xylene	*77*		*45 - 135*	*10/06/15 10:34*	*11/12/15 17:24*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		33	4.8	mg/Kg	☼	10/03/15 15:42	10/06/15 23:24	1
Motor Oil (>C24-C36)	ND		66	12	mg/Kg	☼	10/03/15 15:42	10/06/15 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*10/03/15 15:42*	*10/06/15 23:24*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18000**		18	18	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Antimony	**0.49**		0.12	0.026	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Arsenic	**7.5**		0.31	0.11	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Barium	**160**		0.31	0.048	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Cadmium	**0.29**		0.12	0.012	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Chromium	**19**		0.31	0.039	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Copper	**25**		0.25	0.060	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Lead	**12**		0.31	0.030	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Magnesium	**7200**		62	1.6	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Nickel	**21**		0.31	0.050	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Silver	**0.056**	**J**	0.12	0.0074	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5
Zinc	**83**		3.1	0.69	mg/Kg	☼	10/15/15 08:55	10/15/15 23:35	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.028	0.0084	mg/Kg	☼	10/15/15 09:35	10/15/15 13:17	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.80**				SU			10/05/15 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**260**	**J**	2000	44	mg/Kg			10/14/15 20:29	1
TOC Result 2	**270**	**J**	2000	44	mg/Kg			10/14/15 20:29	1
TOC Result 1	**240**	**J**	2000	44	mg/Kg			10/14/15 20:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**71**		0.10	0.10	%			10/08/15 09:44	1
Percent Moisture	**29**		0.10	0.10	%			10/08/15 09:44	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-202553/1-A
Matrix: Solid
Analysis Batch: 202536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	170	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Acrolein	ND		1200	91	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Acrylonitrile	ND		400	96	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
2-Butanone	ND		400	52	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Bromomethane	ND		140	13	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Carbon disulfide	ND		40	4.4	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Benzene	ND		16	3.5	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Chloroethane	ND		400	16	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Chloroform	ND		40	4.2	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Chloromethane	ND		100	10	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Dibromomethane	ND		60	13	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Iodomethane	ND		200	6.3	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
2-Hexanone	ND		200	36	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Methylene Chloride	ND		25	12	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Ethylbenzene	ND		40	2.0	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Tetrachloroethene	ND		20	5.3	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Toluene	ND		40	2.6	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
o-Xylene	ND		40	3.0	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Styrene	ND		40	2.4	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Bromoform	ND		40	6.5	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Isopropylbenzene	ND		40	2.6	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Trichloroethene	ND		24	3.1	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
t-Butylbenzene	ND		40	3.1	ug/Kg		10/06/15 10:47	10/06/15 12:41	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-202553/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 202536 — **Prep Batch: 202553**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		200	46	ug/Kg		10/06/15 10:47	10/06/15 12:41	1
Vinyl chloride	ND		16	7.1	ug/Kg		10/06/15 10:47	10/06/15 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*71 - 136*	*10/06/15 10:47*	*10/06/15 12:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*10/06/15 10:47*	*10/06/15 12:41*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*10/06/15 10:47*	*10/06/15 12:41*	*1*
Trifluorotoluene (Surr)	*99*		*65 - 140*	*10/06/15 10:47*	*10/06/15 12:41*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 132*	*10/06/15 10:47*	*10/06/15 12:41*	*1*

Lab Sample ID: LCS 580-202553/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 202536 — **Prep Batch: 202553**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3200	3100		ug/Kg		97	20 - 160
Acrolein	4750	3920		ug/Kg		82	10 - 125
Acrylonitrile	8010	9050		ug/Kg		113	74 - 117
1,1-Dichloroethane	800	744		ug/Kg		93	70 - 128
2-Butanone	3200	2920		ug/Kg		91	30 - 160
Bromochloromethane	802	761		ug/Kg		95	78 - 123
Bromomethane	801	562		ug/Kg		70	57 - 148
Carbon disulfide	804	653		ug/Kg		81	45 - 160
1,1,1-Trichloroethane	803	759		ug/Kg		95	63 - 135
Carbon tetrachloride	802	733		ug/Kg		91	59 - 145
Benzene	803	739		ug/Kg		92	70 - 128
1,2-Dichloroethane	801	740		ug/Kg		92	71 - 128
Chloroethane	802	630		ug/Kg		79	48 - 167
Chloroform	800	759		ug/Kg		95	78 - 125
1,2-Dichloropropane	801	731		ug/Kg		91	76 - 161
Chloromethane	803	482		ug/Kg		60	55 - 136
cis-1,2-Dichloroethene	801	744		ug/Kg		93	70 - 130
Bromodichloromethane	803	744		ug/Kg		93	58 - 133
2-Chloroethyl vinyl ether	800	805		ug/Kg		101	60 - 150
cis-1,3-Dichloropropene	802	787		ug/Kg		98	69 - 129
Dibromomethane	803	766		ug/Kg		95	78 - 126
4-Methyl-2-pentanone	3200	3500		ug/Kg		109	45 - 145
Dichlorodifluoromethane	802	342		ug/Kg		43	38 - 150
Iodomethane	803	725		ug/Kg		90	44 - 148
1,1,2-Trichloroethane	802	814		ug/Kg		101	77 - 124
Methyl tert-butyl ether	801	770		ug/Kg		96	65 - 125
2-Hexanone	3200	3410		ug/Kg		106	45 - 145
Methylene Chloride	804	689		ug/Kg		86	57 - 146
Chlorodibromomethane	801	814		ug/Kg		102	42 - 129
1,2-Dibromoethane	801	809		ug/Kg		101	69 - 126
Chlorobenzene	803	779		ug/Kg		97	75 - 120
1,1,1,2-Tetrachloroethane	803	807		ug/Kg		100	72 - 123
Ethylbenzene	803	777		ug/Kg		97	78 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-202553/2-A
Matrix: Solid
Analysis Batch: 202536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	802	762		ug/Kg		95	56 - 155
m-Xylene & p-Xylene	802	778		ug/Kg		97	78 - 126
Toluene	801	770		ug/Kg		96	75 - 126
o-Xylene	801	793		ug/Kg		99	77 - 127
Styrene	801	795		ug/Kg		99	79 - 127
trans-1,2-Dichloroethene	802	718		ug/Kg		90	76 - 131
Bromoform	802	751		ug/Kg		94	50 - 124
trans-1,3-Dichloropropene	801	792		ug/Kg		99	72 - 129
Isopropylbenzene	801	809		ug/Kg		101	79 - 127
1,1,2,2-Tetrachloroethane	801	852		ug/Kg		106	73 - 125
Trichloroethene	802	738		ug/Kg		92	83 - 124
1,2,3-Trichloropropane	801	845		ug/Kg		106	77 - 123
Trichlorofluoromethane	801	626		ug/Kg		78	47 - 165
trans-1,4-Dichloro-2-butene	800	858		ug/Kg		107	42 - 160
t-Butylbenzene	800	791		ug/Kg		99	71 - 136
Vinyl acetate	2000	1970		ug/Kg		98	19 - 144
Vinyl chloride	805	514	*	ug/Kg		64	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*71 - 136*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Trifluorotoluene (Surr)	*98*		*65 - 140*
Dibromofluoromethane (Surr)	*101*		*75 - 132*

Lab Sample ID: LCSD 580-202553/3-A
Matrix: Solid
Analysis Batch: 202536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202553

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3200	3050		ug/Kg		95	20 - 160	2	30
Acrolein	4750	4140		ug/Kg		87	10 - 125	6	30
Acrylonitrile	8010	8740		ug/Kg		109	74 - 117	4	30
1,1-Dichloroethane	800	648		ug/Kg		81	70 - 128	14	21
2-Butanone	3200	2720		ug/Kg		85	30 - 160	7	30
Bromochloromethane	802	671		ug/Kg		84	78 - 123	13	19
Bromomethane	801	516		ug/Kg		64	57 - 148	9	29
Carbon disulfide	804	563		ug/Kg		70	45 - 160	15	30
1,1,1-Trichloroethane	803	677		ug/Kg		84	63 - 135	11	20
Carbon tetrachloride	802	663		ug/Kg		83	59 - 145	10	19
Benzene	803	659		ug/Kg		82	70 - 128	11	19
1,2-Dichloroethane	801	665		ug/Kg		83	71 - 128	11	18
Chloroethane	802	585		ug/Kg		73	48 - 167	7	53
Chloroform	800	667		ug/Kg		83	78 - 125	13	17
1,2-Dichloropropane	801	651		ug/Kg		81	76 - 161	12	15
Chloromethane	803	450		ug/Kg		56	55 - 136	7	26
cis-1,2-Dichloroethene	801	654		ug/Kg		82	70 - 130	13	19
Bromodichloromethane	803	677		ug/Kg		84	58 - 133	9	19

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-202553/3-A
Matrix: Solid
Analysis Batch: 202536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202553

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloroethyl vinyl ether			800	788		ug/Kg		99	60 - 150	2	30
cis-1,3-Dichloropropene			802	704		ug/Kg		88	69 - 129	11	19
Dibromomethane			803	703		ug/Kg		88	78 - 126	9	18
4-Methyl-2-pentanone			3200	3310		ug/Kg		103	45 - 145	6	30
Dichlorodifluoromethane			802	333		ug/Kg		42	38 - 150	3	26
Iodomethane			803	609		ug/Kg		76	44 - 148	17	30
1,1,2-Trichloroethane			802	762		ug/Kg		95	77 - 124	7	18
Methyl tert-butyl ether			801	663		ug/Kg		83	65 - 125	15	30
2-Hexanone			3200	3550		ug/Kg		111	45 - 145	4	30
Methylene Chloride			804	610		ug/Kg		76	57 - 146	12	21
Chlorodibromomethane			801	751		ug/Kg		94	42 - 129	8	23
1,2-Dibromoethane			801	770		ug/Kg		96	69 - 126	5	21
Chlorobenzene			803	718		ug/Kg		89	75 - 120	8	21
1,1,1,2-Tetrachloroethane			803	702		ug/Kg		87	72 - 123	14	20
Ethylbenzene			803	716		ug/Kg		89	78 - 126	8	23
Tetrachloroethene			802	705		ug/Kg		88	56 - 155	8	27
m-Xylene & p-Xylene			802	715		ug/Kg		89	78 - 126	8	23
Toluene			801	693		ug/Kg		87	75 - 126	11	19
o-Xylene			801	700		ug/Kg		87	77 - 127	12	22
Styrene			801	741		ug/Kg		93	79 - 127	7	21
trans-1,2-Dichloroethene			802	631		ug/Kg		79	76 - 131	13	18
Bromoform			802	719		ug/Kg		90	50 - 124	4	25
trans-1,3-Dichloropropene			801	743		ug/Kg		93	72 - 129	6	20
Isopropylbenzene			801	727		ug/Kg		91	79 - 127	11	20
1,1,2,2-Tetrachloroethane			801	781		ug/Kg		98	73 - 125	9	22
Trichloroethene			802	681		ug/Kg		85	83 - 124	8	17
1,2,3-Trichloropropane			801	796		ug/Kg		99	77 - 123	6	23
Trichlorofluoromethane			801	597		ug/Kg		75	47 - 165	5	54
trans-1,4-Dichloro-2-butene			800	883		ug/Kg		110	42 - 160	3	30
t-Butylbenzene			800	730		ug/Kg		91	71 - 136	8	27
Vinyl acetate			2000	1610		ug/Kg		81	19 - 144	20	30
Vinyl chloride			805	463	*	ug/Kg		57	67 - 131	10	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 136*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*65 - 140*
Dibromofluoromethane (Surr)	*96*		*75 - 132*

Lab Sample ID: MB 580-202687/1-A
Matrix: Solid
Analysis Batch: 202766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	170	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Acrolein	ND		1200	91	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Acrylonitrile	ND		400	96	ug/Kg		10/07/15 15:52	10/08/15 12:23	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-202687/1-A
Matrix: Solid
Analysis Batch: 202766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
2-Butanone	ND		400	52	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Bromomethane	ND		140	13	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Carbon disulfide	ND		40	4.4	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Benzene	ND		16	3.5	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Chloroethane	ND		400	16	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Chloroform	ND		40	4.2	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Chloromethane	ND		100	10	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Dibromomethane	ND		60	13	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Iodomethane	ND		200	6.3	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
2-Hexanone	ND		200	36	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Methylene Chloride	ND		25	12	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Ethylbenzene	ND		40	2.0	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Tetrachloroethene	ND		20	5.3	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Toluene	ND		40	2.6	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
o-Xylene	ND		40	3.0	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Styrene	ND		40	2.4	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Bromoform	ND		40	6.5	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Isopropylbenzene	ND		40	2.6	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Trichloroethene	ND		24	3.1	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
t-Butylbenzene	ND		40	3.1	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Vinyl acetate	ND		200	46	ug/Kg		10/07/15 15:52	10/08/15 12:23	1
Vinyl chloride	ND		16	7.1	ug/Kg		10/07/15 15:52	10/08/15 12:23	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-202687/1-A
Matrix: Solid
Analysis Batch: 202766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202687

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		71 - 136	10/07/15 15:52	10/08/15 12:23	1
4-Bromofluorobenzene (Surr)	101		70 - 120	10/07/15 15:52	10/08/15 12:23	1
Toluene-d8 (Surr)	103		80 - 120	10/07/15 15:52	10/08/15 12:23	1
Trifluorotoluene (Surr)	101		65 - 140	10/07/15 15:52	10/08/15 12:23	1
Dibromofluoromethane (Surr)	97		75 - 132	10/07/15 15:52	10/08/15 12:23	1

Lab Sample ID: LCS 580-202687/2-A
Matrix: Solid
Analysis Batch: 202766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3200	2510		ug/Kg		78	20 - 160
Acrolein	4750	3460		ug/Kg		73	10 - 125
Acrylonitrile	8010	6010		ug/Kg		75	74 - 117
1,1-Dichloroethane	800	711		ug/Kg		89	70 - 128
2-Butanone	3200	2550		ug/Kg		80	30 - 160
Bromochloromethane	802	732		ug/Kg		91	78 - 123
Bromomethane	801	657		ug/Kg		82	57 - 148
Carbon disulfide	804	717		ug/Kg		89	45 - 160
1,1,1-Trichloroethane	803	735		ug/Kg		92	63 - 135
Carbon tetrachloride	802	732		ug/Kg		91	59 - 145
Benzene	803	714		ug/Kg		89	70 - 128
1,2-Dichloroethane	801	695		ug/Kg		87	71 - 128
Chloroethane	802	698		ug/Kg		87	48 - 167
Chloroform	800	714		ug/Kg		89	78 - 125
1,2-Dichloropropane	801	708		ug/Kg		88	76 - 161
Chloromethane	803	597		ug/Kg		74	55 - 136
cis-1,2-Dichloroethene	801	708		ug/Kg		88	70 - 130
Bromodichloromethane	803	738		ug/Kg		92	58 - 133
2-Chloroethyl vinyl ether	800	755		ug/Kg		94	60 - 150
cis-1,3-Dichloropropene	802	739		ug/Kg		92	69 - 129
Dibromomethane	803	722		ug/Kg		90	78 - 126
4-Methyl-2-pentanone	3200	2750		ug/Kg		86	45 - 145
Dichlorodifluoromethane	802	567		ug/Kg		71	38 - 150
Iodomethane	803	734		ug/Kg		91	44 - 148
1,1,2-Trichloroethane	802	737		ug/Kg		92	77 - 124
Methyl tert-butyl ether	801	660		ug/Kg		82	65 - 125
2-Hexanone	3200	2840		ug/Kg		89	45 - 145
Methylene Chloride	804	677		ug/Kg		84	57 - 146
Chlorodibromomethane	801	765		ug/Kg		95	42 - 129
1,2-Dibromoethane	801	748		ug/Kg		93	69 - 126
Chlorobenzene	803	747		ug/Kg		93	75 - 120
1,1,1,2-Tetrachloroethane	803	730		ug/Kg		91	72 - 123
Ethylbenzene	803	750		ug/Kg		93	78 - 126
Tetrachloroethene	802	750		ug/Kg		94	56 - 155
m-Xylene & p-Xylene	802	749		ug/Kg		93	78 - 126
Toluene	801	735		ug/Kg		92	75 - 126
o-Xylene	801	737		ug/Kg		92	77 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-202687/2-A
Matrix: Solid
Analysis Batch: 202766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	801	781		ug/Kg		97	79 - 127
trans-1,2-Dichloroethene	802	703		ug/Kg		88	76 - 131
Bromoform	802	689		ug/Kg		86	50 - 124
trans-1,3-Dichloropropene	801	763		ug/Kg		95	72 - 129
Isopropylbenzene	801	760		ug/Kg		95	79 - 127
1,1,2,2-Tetrachloroethane	801	728		ug/Kg		91	73 - 125
Trichloroethene	802	731		ug/Kg		91	83 - 124
1,2,3-Trichloropropane	801	716		ug/Kg		89	77 - 123
Trichlorofluoromethane	801	702		ug/Kg		88	47 - 165
trans-1,4-Dichloro-2-butene	800	790		ug/Kg		99	42 - 160
t-Butylbenzene	800	755		ug/Kg		94	71 - 136
Vinyl acetate	2000	1660		ug/Kg		83	19 - 144
Vinyl chloride	805	745		ug/Kg		93	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 136*
4-Bromofluorobenzene (Surr)	*101*		*70 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*101*		*65 - 140*
Dibromofluoromethane (Surr)	*99*		*75 - 132*

Lab Sample ID: LCSD 580-202687/3-A
Matrix: Solid
Analysis Batch: 202766

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202687

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3200	2610		ug/Kg		81	20 - 160	4	30
Acrolein	4750	3600		ug/Kg		76	10 - 125	4	30
Acrylonitrile	8010	6130		ug/Kg		77	74 - 117	2	30
1,1-Dichloroethane	800	757		ug/Kg		95	70 - 128	6	21
2-Butanone	3200	2580		ug/Kg		81	30 - 160	1	30
Bromochloromethane	802	759		ug/Kg		95	78 - 123	4	19
Bromomethane	801	658		ug/Kg		82	57 - 148	0	29
Carbon disulfide	804	761		ug/Kg		95	45 - 160	6	30
1,1,1-Trichloroethane	803	778		ug/Kg		97	63 - 135	6	20
Carbon tetrachloride	802	762		ug/Kg		95	59 - 145	4	19
Benzene	803	742		ug/Kg		92	70 - 128	4	19
1,2-Dichloroethane	801	703		ug/Kg		88	71 - 128	1	18
Chloroethane	802	707		ug/Kg		88	48 - 167	1	53
Chloroform	800	750		ug/Kg		94	78 - 125	5	17
1,2-Dichloropropane	801	711		ug/Kg		89	76 - 161	0	15
Chloromethane	803	624		ug/Kg		78	55 - 136	4	26
cis-1,2-Dichloroethene	801	745		ug/Kg		93	70 - 130	5	19
Bromodichloromethane	803	740		ug/Kg		92	58 - 133	0	19
2-Chloroethyl vinyl ether	800	724		ug/Kg		91	60 - 150	4	30
cis-1,3-Dichloropropene	802	773		ug/Kg		96	69 - 129	4	19
Dibromomethane	803	713		ug/Kg		89	78 - 126	1	18
4-Methyl-2-pentanone	3200	2780		ug/Kg		87	45 - 145	1	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-202687/3-A
Matrix: Solid
Analysis Batch: 202766

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202687

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			802	621		ug/Kg		77	38 - 150	9	26
Iodomethane			803	758		ug/Kg		94	44 - 148	3	30
1,1,2-Trichloroethane			802	751		ug/Kg		94	77 - 124	2	18
Methyl tert-butyl ether			801	706		ug/Kg		88	65 - 125	7	30
2-Hexanone			3200	2600		ug/Kg		81	45 - 145	9	30
Methylene Chloride			804	706		ug/Kg		88	57 - 146	4	21
Chlorodibromomethane			801	778		ug/Kg		97	42 - 129	2	23
1,2-Dibromoethane			801	740		ug/Kg		92	69 - 126	1	21
Chlorobenzene			803	760		ug/Kg		95	75 - 120	2	21
1,1,1,2-Tetrachloroethane			803	796		ug/Kg		99	72 - 123	9	20
Ethylbenzene			803	775		ug/Kg		97	78 - 126	3	23
Tetrachloroethene			802	796		ug/Kg		99	56 - 155	6	27
m-Xylene & p-Xylene			802	776		ug/Kg		97	78 - 126	4	23
Toluene			801	780		ug/Kg		97	75 - 126	6	19
o-Xylene			801	779		ug/Kg		97	77 - 127	6	22
Styrene			801	784		ug/Kg		98	79 - 127	0	21
trans-1,2-Dichloroethene			802	755		ug/Kg		94	76 - 131	7	18
Bromoform			802	679		ug/Kg		85	50 - 124	2	25
trans-1,3-Dichloropropene			801	756		ug/Kg		94	72 - 129	1	20
Isopropylbenzene			801	805		ug/Kg		100	79 - 127	6	20
1,1,2,2-Tetrachloroethane			801	718		ug/Kg		90	73 - 125	1	22
Trichloroethene			802	750		ug/Kg		94	83 - 124	3	17
1,2,3-Trichloropropane			801	741		ug/Kg		93	77 - 123	3	23
Trichlorofluoromethane			801	723		ug/Kg		90	47 - 165	3	54
trans-1,4-Dichloro-2-butene			800	732		ug/Kg		91	42 - 160	8	30
t-Butylbenzene			800	816		ug/Kg		102	71 - 136	8	27
Vinyl acetate			2000	1680		ug/Kg		84	19 - 144	1	30
Vinyl chloride			805	682		ug/Kg		85	67 - 131	9	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 136*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
Trifluorotoluene (Surr)	*101*		*65 - 140*
Dibromofluoromethane (Surr)	*101*		*75 - 132*

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	170	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acrolein	ND		1200	91	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Acrylonitrile	ND		400	96	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1-Dichloroethane	ND		40	4.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Butanone	ND		400	52	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromochloromethane	ND		40	4.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromomethane	ND		140	13	ug/Kg		10/12/15 10:34	10/12/15 12:37	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		40	4.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,1-Trichloroethane	ND		40	5.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Carbon tetrachloride	ND		20	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Benzene	ND		16	3.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dichloroethane	ND		16	3.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloroethane	ND		400	16	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloroform	ND		40	4.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dichloropropane	ND		12	2.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chloromethane	ND		100	10	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
cis-1,2-Dichloroethene	ND		40	4.9	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromodichloromethane	ND		40	1.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Chloroethyl vinyl ether	ND		200	6.2	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
cis-1,3-Dichloropropene	ND		16	1.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Dibromomethane	ND		60	13	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
4-Methyl-2-pentanone	ND		200	30	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Dichlorodifluoromethane	ND		40	6.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Iodomethane	ND		200	6.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,2-Trichloroethane	ND		12	2.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
2-Hexanone	ND		200	36	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chlorodibromomethane	ND		20	2.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2-Dibromoethane	ND		16	3.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Chlorobenzene	ND		40	9.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,1,2-Tetrachloroethane	ND		40	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Ethylbenzene	ND		40	2.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Tetrachloroethene	ND		20	5.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Toluene	ND		40	2.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
o-Xylene	ND		40	3.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Styrene	ND		40	2.4	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,2-Dichloroethene	ND		40	3.8	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Bromoform	ND		40	6.5	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Isopropylbenzene	ND		40	2.6	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,1,2,2-Tetrachloroethane	ND		10	2.3	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Trichloroethene	ND		24	3.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Trichlorofluoromethane	ND		40	5.9	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
trans-1,4-Dichloro-2-butene	ND		200	16	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
t-Butylbenzene	ND		40	3.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Vinyl acetate	ND		200	46	ug/Kg		10/12/15 10:34	10/12/15 12:37	1
Vinyl chloride	ND		16	7.1	ug/Kg		10/12/15 10:34	10/12/15 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 136*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 120*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*	*10/12/15 10:34*	*10/12/15 12:37*	*1*
Trifluorotoluene (Surr)	*97*		*65 - 140*	*10/12/15 10:34*	*10/12/15 12:37*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		75 - 132	10/12/15 10:34	10/12/15 12:37	1

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3200	3760		ug/Kg		118	20 - 160
Acrolein	4750	4470		ug/Kg		94	10 - 125
Acrylonitrile	8010	8270		ug/Kg		103	74 - 117
1,1-Dichloroethane	800	724		ug/Kg		91	70 - 128
2-Butanone	3200	3530		ug/Kg		110	30 - 160
Bromochloromethane	802	712		ug/Kg		89	78 - 123
Bromomethane	801	563		ug/Kg		70	57 - 148
Carbon disulfide	804	725		ug/Kg		90	45 - 160
1,1,1-Trichloroethane	803	693		ug/Kg		86	63 - 135
Carbon tetrachloride	802	663		ug/Kg		83	59 - 145
Benzene	803	741		ug/Kg		92	70 - 128
1,2-Dichloroethane	801	699		ug/Kg		87	71 - 128
Chloroethane	802	591		ug/Kg		74	48 - 167
Chloroform	800	720		ug/Kg		90	78 - 125
1,2-Dichloropropane	801	724		ug/Kg		90	76 - 161
Chloromethane	803	687		ug/Kg		86	55 - 136
cis-1,2-Dichloroethene	801	695		ug/Kg		87	70 - 130
Bromodichloromethane	803	676		ug/Kg		84	58 - 133
2-Chloroethyl vinyl ether	800	841		ug/Kg		105	60 - 150
cis-1,3-Dichloropropene	802	762		ug/Kg		95	69 - 129
Dibromomethane	803	762		ug/Kg		95	78 - 126
4-Methyl-2-pentanone	3200	3720		ug/Kg		116	45 - 145
Dichlorodifluoromethane	802	617		ug/Kg		77	38 - 150
Iodomethane	803	716		ug/Kg		89	44 - 148
1,1,2-Trichloroethane	802	793		ug/Kg		99	77 - 124
Methyl tert-butyl ether	801	712		ug/Kg		89	65 - 125
2-Hexanone	3200	3740		ug/Kg		117	45 - 145
Chlorodibromomethane	801	758		ug/Kg		95	42 - 129
1,2-Dibromoethane	801	774		ug/Kg		97	69 - 126
Chlorobenzene	803	761		ug/Kg		95	75 - 120
1,1,1,2-Tetrachloroethane	803	709		ug/Kg		88	72 - 123
Ethylbenzene	803	773		ug/Kg		96	78 - 126
Tetrachloroethene	802	750		ug/Kg		94	56 - 155
m-Xylene & p-Xylene	802	796		ug/Kg		99	78 - 126
Toluene	801	783		ug/Kg		98	75 - 126
o-Xylene	801	777		ug/Kg		97	77 - 127
Styrene	801	782		ug/Kg		98	79 - 127
trans-1,2-Dichloroethene	802	667		ug/Kg		83	76 - 131
Bromoform	802	728		ug/Kg		91	50 - 124
trans-1,3-Dichloropropene	801	752		ug/Kg		94	72 - 129
Isopropylbenzene	801	784		ug/Kg		98	79 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,2,2-Tetrachloroethane			801	827		ug/Kg		103	73 - 125		
Trichloroethene			802	714		ug/Kg		89	83 - 124		
1,2,3-Trichloropropane			801	838		ug/Kg		105	77 - 123		
Trichlorofluoromethane			801	702		ug/Kg		88	47 - 165		
trans-1,4-Dichloro-2-butene			800	826		ug/Kg		103	42 - 160		
t-Butylbenzene			800	814		ug/Kg		102	71 - 136		
Vinyl acetate			2000	2080		ug/Kg		104	19 - 144		
Vinyl chloride			805	572		ug/Kg		71	67 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 136*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*65 - 140*
Dibromofluoromethane (Surr)	*96*		*75 - 132*

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			3200	2890		ug/Kg		90	20 - 160	26	30
Acrolein			4750	3790		ug/Kg		80	10 - 125	16	30
Acrylonitrile			8010	7080		ug/Kg		88	74 - 117	16	30
1,1-Dichloroethane			800	708		ug/Kg		88	70 - 128	2	21
2-Butanone			3200	2960		ug/Kg		93	30 - 160	18	30
Bromochloromethane			802	694		ug/Kg		87	78 - 123	3	19
Bromomethane			801	601		ug/Kg		75	57 - 148	6	29
Carbon disulfide			804	709		ug/Kg		88	45 - 160	2	30
1,1,1-Trichloroethane			803	677		ug/Kg		84	63 - 135	2	20
Carbon tetrachloride			802	681		ug/Kg		85	59 - 145	3	19
Benzene			803	744		ug/Kg		93	70 - 128	0	19
1,2-Dichloroethane			801	688		ug/Kg		86	71 - 128	2	18
Chloroethane			802	650		ug/Kg		81	48 - 167	9	53
Chloroform			800	709		ug/Kg		89	78 - 125	2	17
1,2-Dichloropropane			801	702		ug/Kg		88	76 - 161	3	15
Chloromethane			803	695		ug/Kg		87	55 - 136	1	26
cis-1,2-Dichloroethene			801	671		ug/Kg		84	70 - 130	4	19
Bromodichloromethane			803	672		ug/Kg		84	58 - 133	1	19
2-Chloroethyl vinyl ether			800	783		ug/Kg		98	60 - 150	7	30
cis-1,3-Dichloropropene			802	755		ug/Kg		94	69 - 129	1	19
Dibromomethane			803	731		ug/Kg		91	78 - 126	4	18
4-Methyl-2-pentanone			3200	3200		ug/Kg		100	45 - 145	15	30
Dichlorodifluoromethane			802	593		ug/Kg		74	38 - 150	4	26
Iodomethane			803	690		ug/Kg		86	44 - 148	4	30
1,1,2-Trichloroethane			802	769		ug/Kg		96	77 - 124	3	18
Methyl tert-butyl ether			801	687		ug/Kg		86	65 - 125	4	30
2-Hexanone			3200	3160		ug/Kg		99	45 - 145	17	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 203054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorodibromomethane			801	756		ug/Kg		94	42 - 129	0	23
1,2-Dibromoethane			801	746		ug/Kg		93	69 - 126	4	21
Chlorobenzene			803	747		ug/Kg		93	75 - 120	2	21
1,1,1,2-Tetrachloroethane			803	731		ug/Kg		91	72 - 123	3	20
Ethylbenzene			803	755		ug/Kg		94	78 - 126	2	23
Tetrachloroethene			802	747		ug/Kg		93	56 - 155	0	27
m-Xylene & p-Xylene			802	782		ug/Kg		98	78 - 126	2	23
Toluene			801	774		ug/Kg		97	75 - 126	1	19
o-Xylene			801	779		ug/Kg		97	77 - 127	0	22
Styrene			801	780		ug/Kg		97	79 - 127	0	21
trans-1,2-Dichloroethene			802	681		ug/Kg		85	76 - 131	2	18
Bromoform			802	716		ug/Kg		89	50 - 124	2	25
trans-1,3-Dichloropropene			801	736		ug/Kg		92	72 - 129	2	20
Isopropylbenzene			801	796		ug/Kg		99	79 - 127	1	20
1,1,2,2-Tetrachloroethane			801	743		ug/Kg		93	73 - 125	11	22
Trichloroethene			802	709		ug/Kg		89	83 - 124	1	17
1,2,3-Trichloropropane			801	735		ug/Kg		92	77 - 123	13	23
Trichlorofluoromethane			801	685		ug/Kg		86	47 - 165	2	54
trans-1,4-Dichloro-2-butene			800	763		ug/Kg		95	42 - 160	8	30
t-Butylbenzene			800	818		ug/Kg		102	71 - 136	1	27
Vinyl acetate			2000	1790		ug/Kg		89	19 - 144	15	30
Vinyl chloride			805	592		ug/Kg		74	67 - 131	3	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 136*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*102*		*65 - 140*
Dibromofluoromethane (Surr)	*96*		*75 - 132*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Lab Sample ID: MB 580-203073/1-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride - RA	22.8	J	25	12	ug/Kg		10/12/15 10:34	10/22/15 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr) - RA	*95*		*71 - 136*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
4-Bromofluorobenzene (Surr) - RA	*100*		*70 - 120*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Toluene-d8 (Surr) - RA	*103*		*80 - 120*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Trifluorotoluene (Surr) - RA	*96*		*65 - 140*	*10/12/15 10:34*	*10/22/15 11:09*	*1*
Dibromofluoromethane (Surr) - RA	*97*		*75 - 132*	*10/12/15 10:34*	*10/22/15 11:09*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Lab Sample ID: LCS 580-203073/2-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride - RA			804	799		ug/Kg		99	57 - 146		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - RA	*97*		*71 - 136*
4-Bromofluorobenzene (Surr) - RA	*100*		*70 - 120*
Toluene-d8 (Surr) - RA	*100*		*80 - 120*
Trifluorotoluene (Surr) - RA	*98*		*65 - 140*
Dibromofluoromethane (Surr) - RA	*100*		*75 - 132*

Lab Sample ID: LCSD 580-203073/3-A
Matrix: Solid
Analysis Batch: 204000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203073

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride - RA			804	789		ug/Kg		98	57 - 146	1	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - RA	*98*		*71 - 136*
4-Bromofluorobenzene (Surr) - RA	*101*		*70 - 120*
Toluene-d8 (Surr) - RA	*101*		*80 - 120*
Trifluorotoluene (Surr) - RA	*99*		*65 - 140*
Dibromofluoromethane (Surr) - RA	*99*		*75 - 132*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-202448/1-A
Matrix: Solid
Analysis Batch: 203464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202448

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Diethyl phthalate	6.73	J	20	1.5	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Fluorene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Anthracene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Di-n-butyl phthalate	5.32	J	50	5.0	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Pyrene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Butyl benzyl phthalate	ND		20	5.0	ug/Kg		10/04/15 09:47	10/15/15 19:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-202448/1-A
Matrix: Solid
Analysis Batch: 203464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202448

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Chrysene	ND		2.5	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Bis(2-ethylhexyl) phthalate	6.97	J	60	5.0	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/04/15 09:47	10/15/15 19:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*114*		*42 - 151*	*10/04/15 09:47*	*10/15/15 19:23*	*1*

Lab Sample ID: LCS 580-202448/2-A
Matrix: Solid
Analysis Batch: 203464

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	100	77.9		ug/Kg		78	62 - 112
2-Methylnaphthalene	100	84.5		ug/Kg		84	64 - 119
Dimethyl phthalate	100	90.1		ug/Kg		90	78 - 117
Acenaphthylene	100	83.7		ug/Kg		84	68 - 120
Acenaphthene	100	79.6		ug/Kg		80	68 - 116
Diethyl phthalate	100	90.0		ug/Kg		90	73 - 116
Fluorene	100	87.7		ug/Kg		88	70 - 121
Phenanthrene	100	80.8		ug/Kg		81	73 - 106
Anthracene	100	94.1		ug/Kg		94	73 - 116
Di-n-butyl phthalate	100	109		ug/Kg		109	66 - 140
Fluoranthene	100	102		ug/Kg		102	73 - 125
Pyrene	100	97.6		ug/Kg		98	70 - 120
Butyl benzyl phthalate	100	93.7		ug/Kg		94	69 - 142
Benzo[a]anthracene	100	89.1		ug/Kg		89	76 - 119
Chrysene	100	83.1		ug/Kg		83	75 - 114
Bis(2-ethylhexyl) phthalate	100	89.2		ug/Kg		89	62 - 144
Di-n-octyl phthalate	100	91.9		ug/Kg		92	65 - 141
Benzo[b]fluoranthene	100	98.6		ug/Kg		99	63 - 132
Benzo[k]fluoranthene	100	100		ug/Kg		100	63 - 119
Benzo[a]pyrene	100	93.6		ug/Kg		94	72 - 117
Indeno[1,2,3-cd]pyrene	100	84.7		ug/Kg		85	56 - 127
Dibenz(a,h)anthracene	100	88.7		ug/Kg		89	56 - 134
Benzo[g,h,i]perylene	100	95.2		ug/Kg		95	55 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*114*		*42 - 151*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-202448/3-A
Matrix: Solid
Analysis Batch: 203464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202448

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			100	74.8		ug/Kg		75	62 - 112	4	26
2-Methylnaphthalene			100	81.7		ug/Kg		82	64 - 119	3	27
Dimethyl phthalate			100	86.6		ug/Kg		87	78 - 117	4	30
Acenaphthylene			100	79.3		ug/Kg		79	68 - 120	5	28
Acenaphthene			100	74.3		ug/Kg		74	68 - 116	7	27
Diethyl phthalate			100	86.4		ug/Kg		86	73 - 116	4	26
Fluorene			100	84.1		ug/Kg		84	70 - 121	4	30
Phenanthrene			100	79.1		ug/Kg		79	73 - 106	2	28
Anthracene			100	92.0		ug/Kg		92	73 - 116	2	27
Di-n-butyl phthalate			100	107		ug/Kg		107	66 - 140	2	30
Fluoranthene			100	101		ug/Kg		101	73 - 125	1	30
Pyrene			100	94.4		ug/Kg		94	70 - 120	3	30
Butyl benzyl phthalate			100	92.4		ug/Kg		92	69 - 142	1	30
Benzo[a]anthracene			100	88.7		ug/Kg		89	76 - 119	0	27
Chrysene			100	83.4		ug/Kg		83	75 - 114	0	26
Bis(2-ethylhexyl) phthalate			100	88.5		ug/Kg		89	62 - 144	1	30
Di-n-octyl phthalate			100	91.9		ug/Kg		92	65 - 141	0	30
Benzo[b]fluoranthene			100	90.6		ug/Kg		91	63 - 132	8	30
Benzo[k]fluoranthene			100	101		ug/Kg		101	63 - 119	0	30
Benzo[a]pyrene			100	92.7		ug/Kg		93	72 - 117	1	30
Indeno[1,2,3-cd]pyrene			100	83.6		ug/Kg		84	56 - 127	1	29
Dibenz(a,h)anthracene			100	89.3		ug/Kg		89	56 - 134	1	30
Benzo[g,h,i]perylene			100	91.5		ug/Kg		91	55 - 139	4	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*109*		*42 - 151*

Lab Sample ID: 580-53787-5 MS
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: BG-1-23
Prep Type: Total/NA
Prep Batch: 202448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		135	101		ug/Kg	☼	75	62 - 112
2-Methylnaphthalene	ND		135	111		ug/Kg	☼	82	64 - 119
Dimethyl phthalate	ND		135	123		ug/Kg	☼	91	78 - 117
Acenaphthylene	ND		135	112		ug/Kg	☼	83	68 - 120
Acenaphthene	ND		135	106		ug/Kg	☼	78	68 - 116
Diethyl phthalate	12	J B	135	129		ug/Kg	☼	86	73 - 116
Fluorene	ND		135	119		ug/Kg	☼	88	70 - 121
Phenanthrene	ND		135	108		ug/Kg	☼	80	73 - 106
Anthracene	ND		135	122		ug/Kg	☼	90	73 - 116
Di-n-butyl phthalate	11	J B	135	152		ug/Kg	☼	104	66 - 140
Fluoranthene	ND		135	143		ug/Kg	☼	106	73 - 125
Pyrene	ND		135	133		ug/Kg	☼	99	70 - 120
Butyl benzyl phthalate	ND		135	130		ug/Kg	☼	96	69 - 142
Benzo[a]anthracene	ND		135	122		ug/Kg	☼	90	76 - 119
Chrysene	ND		135	117		ug/Kg	☼	86	75 - 114
Bis(2-ethylhexyl) phthalate	22	J B	135	127		ug/Kg	☼	78	62 - 144

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-53787-5 MS
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: BG-1-23
Prep Type: Total/NA
Prep Batch: 202448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	ND		135	163		ug/Kg	☼	120	65 - 141
Benzo[b]fluoranthene	ND		135	143		ug/Kg	☼	106	63 - 132
Benzo[k]fluoranthene	ND	F1	135	163	F1	ug/Kg	☼	120	63 - 119
Benzo[a]pyrene	ND		135	135		ug/Kg	☼	99	72 - 117
Indeno[1,2,3-cd]pyrene	ND	F1	135	70.0	F1	ug/Kg	☼	52	56 - 127
Dibenz(a,h)anthracene	ND		135	82.6		ug/Kg	☼	61	56 - 134
Benzo[g,h,i]perylene	ND	F1	135	62.2	F1	ug/Kg	☼	46	55 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*117*		*42 - 151*

Lab Sample ID: 580-53787-5 MSD
Matrix: Solid
Analysis Batch: 203587

Client Sample ID: BG-1-23
Prep Type: Total/NA
Prep Batch: 202448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		135	103		ug/Kg	☼	77	62 - 112	2	26
2-Methylnaphthalene	ND		135	115		ug/Kg	☼	85	64 - 119	3	27
Dimethyl phthalate	ND		135	127		ug/Kg	☼	94	78 - 117	3	60
Acenaphthylene	ND		135	116		ug/Kg	☼	86	68 - 120	4	28
Acenaphthene	ND		135	108		ug/Kg	☼	80	68 - 116	2	27
Diethyl phthalate	12	J B	135	134		ug/Kg	☼	91	73 - 116	4	26
Fluorene	ND		135	123		ug/Kg	☼	91	70 - 121	3	31
Phenanthrene	ND		135	114		ug/Kg	☼	84	73 - 106	5	28
Anthracene	ND		135	132		ug/Kg	☼	98	73 - 116	8	27
Di-n-butyl phthalate	11	J B	135	161		ug/Kg	☼	111	66 - 140	6	60
Fluoranthene	ND		135	151		ug/Kg	☼	112	73 - 125	5	36
Pyrene	ND		135	141		ug/Kg	☼	105	70 - 120	6	31
Butyl benzyl phthalate	ND		135	140		ug/Kg	☼	104	69 - 142	7	60
Benzo[a]anthracene	ND		135	124		ug/Kg	☼	92	76 - 119	2	27
Chrysene	ND		135	115		ug/Kg	☼	85	75 - 114	1	26
Bis(2-ethylhexyl) phthalate	22	J B	135	127		ug/Kg	☼	78	62 - 144	0	60
Di-n-octyl phthalate	ND		135	163		ug/Kg	☼	121	65 - 141	0	31
Benzo[b]fluoranthene	ND		135	153		ug/Kg	☼	113	63 - 132	7	31
Benzo[k]fluoranthene	ND	F1	135	152		ug/Kg	☼	113	63 - 119	7	31
Benzo[a]pyrene	ND		135	134		ug/Kg	☼	100	72 - 117	0	30
Indeno[1,2,3-cd]pyrene	ND	F1	135	69.4	F1	ug/Kg	☼	51	56 - 127	1	29
Dibenz(a,h)anthracene	ND		135	81.4		ug/Kg	☼	60	56 - 134	1	30
Benzo[g,h,i]perylene	ND	F1	135	64.4	F1	ug/Kg	☼	48	55 - 139	4	28

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*126*		*42 - 151*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-202998/1-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Diethyl phthalate	19.7	J	20	1.5	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Fluorene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Anthracene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Pyrene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Butyl benzyl phthalate	30.6		20	5.0	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Chrysene	ND		2.5	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Bis(2-ethylhexyl) phthalate	14.1	J	60	5.0	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/10/15 14:08	10/21/15 00:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*99*		*42 - 151*	*10/10/15 14:08*	*10/21/15 00:18*	*1*

Lab Sample ID: LCS 580-202998/2-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	100	75.0		ug/Kg		75	62 - 112
2-Methylnaphthalene	100	79.8		ug/Kg		80	64 - 119
Dimethyl phthalate	100	88.4		ug/Kg		88	78 - 117
Acenaphthylene	100	82.3		ug/Kg		82	68 - 120
Acenaphthene	100	77.7		ug/Kg		78	68 - 116
Diethyl phthalate	100	101		ug/Kg		101	73 - 116
Fluorene	100	86.8		ug/Kg		87	70 - 121
Phenanthrene	100	79.2		ug/Kg		79	73 - 106
Anthracene	100	91.2		ug/Kg		91	73 - 116
Di-n-butyl phthalate	100	110		ug/Kg		110	66 - 140
Fluoranthene	100	93.8		ug/Kg		94	73 - 125
Pyrene	100	89.2		ug/Kg		89	70 - 120
Butyl benzyl phthalate	100	136		ug/Kg		136	69 - 142
Benzo[a]anthracene	100	92.5		ug/Kg		93	76 - 119
Chrysene	100	85.6		ug/Kg		86	75 - 114
Bis(2-ethylhexyl) phthalate	100	113		ug/Kg		113	62 - 144

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-202998/2-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202998

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Di-n-octyl phthalate			100	110		ug/Kg		110	65 - 141		
Benzo[b]fluoranthene			100	90.6		ug/Kg		91	63 - 132		
Benzo[k]fluoranthene			100	99.5		ug/Kg		100	63 - 119		
Benzo[a]pyrene			100	91.9		ug/Kg		92	72 - 117		
Indeno[1,2,3-cd]pyrene			100	85.5		ug/Kg		85	56 - 127		
Dibenz(a,h)anthracene			100	94.2		ug/Kg		94	56 - 134		
Benzo[g,h,i]perylene			100	96.7		ug/Kg		97	55 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*97*		*42 - 151*

Lab Sample ID: LCSD 580-202998/3-A
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202998

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			100	74.0		ug/Kg		74	62 - 112	1	26
2-Methylnaphthalene			100	81.9		ug/Kg		82	64 - 119	3	27
Dimethyl phthalate			100	88.4		ug/Kg		88	78 - 117	0	30
Acenaphthylene			100	82.0		ug/Kg		82	68 - 120	0	28
Acenaphthene			100	77.0		ug/Kg		77	68 - 116	1	27
Diethyl phthalate			100	103		ug/Kg		103	73 - 116	2	26
Fluorene			100	86.3		ug/Kg		86	70 - 121	1	30
Phenanthrene			100	80.9		ug/Kg		81	73 - 106	2	28
Anthracene			100	94.6		ug/Kg		95	73 - 116	4	27
Di-n-butyl phthalate			100	121		ug/Kg		121	66 - 140	10	30
Fluoranthene			100	97.3		ug/Kg		97	73 - 125	4	30
Pyrene			100	91.2		ug/Kg		91	70 - 120	2	30
Butyl benzyl phthalate			100	142		ug/Kg		142	69 - 142	4	30
Benzo[a]anthracene			100	91.4		ug/Kg		91	76 - 119	1	27
Chrysene			100	86.3		ug/Kg		86	75 - 114	1	26
Bis(2-ethylhexyl) phthalate			100	112		ug/Kg		112	62 - 144	1	30
Di-n-octyl phthalate			100	112		ug/Kg		112	65 - 141	2	30
Benzo[b]fluoranthene			100	88.9		ug/Kg		89	63 - 132	2	30
Benzo[k]fluoranthene			100	105		ug/Kg		105	63 - 119	5	30
Benzo[a]pyrene			100	91.2		ug/Kg		91	72 - 117	1	30
Indeno[1,2,3-cd]pyrene			100	88.6		ug/Kg		89	56 - 127	4	29
Dibenz(a,h)anthracene			100	89.8		ug/Kg		90	56 - 134	5	30
Benzo[g,h,i]perylene			100	95.3		ug/Kg		95	55 - 139	1	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*100*		*42 - 151*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-53787-11 MS
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: BG-1-7-A
Prep Type: Total/NA
Prep Batch: 202998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		127	94.8		ug/Kg	☼	74	62 - 112
2-Methylnaphthalene	ND		127	104		ug/Kg	☼	82	64 - 119
Dimethyl phthalate	ND		127	121		ug/Kg	☼	95	78 - 117
Acenaphthylene	ND		127	113		ug/Kg	☼	88	68 - 120
Acenaphthene	ND		127	102		ug/Kg	☼	80	68 - 116
Diethyl phthalate	20	J B	127	126		ug/Kg	☼	83	73 - 116
Fluorene	ND		127	116		ug/Kg	☼	91	70 - 121
Phenanthrene	ND		127	107		ug/Kg	☼	84	73 - 106
Anthracene	ND		127	123		ug/Kg	☼	97	73 - 116
Di-n-butyl phthalate	11	J	127	152		ug/Kg	☼	110	66 - 140
Fluoranthene	0.67	J	127	131		ug/Kg	☼	102	73 - 125
Pyrene	ND		127	125		ug/Kg	☼	98	70 - 120
Butyl benzyl phthalate	18	J B	127	169		ug/Kg	☼	118	69 - 142
Benzo[a]anthracene	0.77	J	127	122		ug/Kg	☼	95	76 - 119
Chrysene	ND		127	112		ug/Kg	☼	88	75 - 114
Bis(2-ethylhexyl) phthalate	23	J B	127	161		ug/Kg	☼	109	62 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*109*		*42 - 151*

Lab Sample ID: 580-53787-11 MSD
Matrix: Solid
Analysis Batch: 203867

Client Sample ID: BG-1-7-A
Prep Type: Total/NA
Prep Batch: 202998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		131	100		ug/Kg	☼	77	62 - 112	6	26
2-Methylnaphthalene	ND		131	107		ug/Kg	☼	82	64 - 119	3	27
Dimethyl phthalate	ND		131	124		ug/Kg	☼	94	78 - 117	2	60
Acenaphthylene	ND		131	113		ug/Kg	☼	86	68 - 120	0	28
Acenaphthene	ND		131	103		ug/Kg	☼	79	68 - 116	1	27
Diethyl phthalate	20	J B	131	135		ug/Kg	☼	88	73 - 116	7	26
Fluorene	ND		131	118		ug/Kg	☼	90	70 - 121	2	31
Phenanthrene	ND		131	110		ug/Kg	☼	84	73 - 106	3	28
Anthracene	ND		131	127		ug/Kg	☼	97	73 - 116	3	27
Di-n-butyl phthalate	11	J	131	161		ug/Kg	☼	115	66 - 140	6	60
Fluoranthene	0.67	J	131	137		ug/Kg	☼	104	73 - 125	5	36
Pyrene	ND		131	131		ug/Kg	☼	100	70 - 120	5	31
Butyl benzyl phthalate	18	J B	131	175		ug/Kg	☼	120	69 - 142	4	60
Benzo[a]anthracene	0.77	J	131	128		ug/Kg	☼	97	76 - 119	5	27
Chrysene	ND		131	111		ug/Kg	☼	85	75 - 114	0	26
Bis(2-ethylhexyl) phthalate	23	J B	131	164		ug/Kg	☼	108	62 - 144	2	60

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*110*		*42 - 151*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Lab Sample ID: 580-53787-11 MS
Matrix: Solid
Analysis Batch: 204188

Client Sample ID: BG-1-7-A
Prep Type: Total/NA
Prep Batch: 202998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate - RA	3.9	J F2	127	152		ug/Kg	☼	116	65 - 141
Benzo[b]fluoranthene - RA	ND		127	128		ug/Kg	☼	101	63 - 132
Benzo[k]fluoranthene - RA	ND	F1	127	136		ug/Kg	☼	107	63 - 119
Benzo[a]pyrene - RA	ND		127	125		ug/Kg	☼	98	72 - 117
Indeno[1,2,3-cd]pyrene - RA	ND	F1 F2	127	94.0		ug/Kg	☼	74	56 - 127
Dibenz(a,h)anthracene - RA	ND	F1 F2	127	104		ug/Kg	☼	81	56 - 134
Benzo[g,h,i]perylene - RA	ND	F1 F2	127	93.0		ug/Kg	☼	73	55 - 139

Lab Sample ID: 580-53787-11 MSD
Matrix: Solid
Analysis Batch: 204188

Client Sample ID: BG-1-7-A
Prep Type: Total/NA
Prep Batch: 202998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-octyl phthalate - RA	3.9	J F2	131	101	F2	ug/Kg	☼	74	65 - 141	40	31
Benzo[b]fluoranthene - RA	ND		131	143		ug/Kg	☼	109	63 - 132	11	31
Benzo[k]fluoranthene - RA	ND	F1	131	159	F1	ug/Kg	☼	121	63 - 119	15	31
Benzo[a]pyrene - RA	ND		131	126		ug/Kg	☼	97	72 - 117	1	30
Indeno[1,2,3-cd]pyrene - RA	ND	F1 F2	131	47.4	F1 F2	ug/Kg	☼	36	56 - 127	66	29
Dibenz(a,h)anthracene - RA	ND	F1 F2	131	54.7	F1 F2	ug/Kg	☼	42	56 - 134	62	30
Benzo[g,h,i]perylene - RA	ND	F1 F2	131	46.2	F1 F2	ug/Kg	☼	35	55 - 139	67	28

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-202577/1-A
Matrix: Solid
Analysis Batch: 202593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	0.855	J	4.0	0.50	mg/Kg		10/06/15 13:42	10/06/15 15:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*	*10/06/15 13:42*	*10/06/15 15:34*	*1*

Lab Sample ID: LCS 580-202577/2-A
Matrix: Solid
Analysis Batch: 202593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202577

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline			40.0	33.5		mg/Kg		84	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-202577/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 202593 — **Prep Batch: 202577**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	34.5		mg/Kg		86	68 - 120	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*

Lab Sample ID: MB 580-203228/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203258 — **Prep Batch: 203228**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.50	mg/Kg		10/13/15 15:49	10/13/15 21:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*	*10/13/15 15:49*	*10/13/15 21:31*	*1*

Lab Sample ID: LCS 580-203228/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203258 — **Prep Batch: 203228**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			40.0	33.1		mg/Kg		83	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*

Lab Sample ID: LCSD 580-203228/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 203258 — **Prep Batch: 203228**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	32.5		mg/Kg		81	68 - 120	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 580-202548/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 206045 — **Prep Batch: 202548**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.20	0.030	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
2,4'-DDE	ND		0.20	0.030	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
2,4'-DDT	ND		0.20	0.030	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
4,4'-DDD	ND		0.20	0.015	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/06/15 10:34	11/19/15 20:54	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-202548/1-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	ND		0.20	0.015	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Aldrin	ND		0.10	0.022	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
alpha-BHC	ND		0.10	0.028	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
beta-BHC	ND		0.10	0.032	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Chlordane (technical)	ND		1.0	0.14	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
cis-Nonachlor	ND		0.20	0.019	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
delta-BHC	ND		0.10	0.015	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Dieldrin	ND		0.20	0.012	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Endosulfan II	ND		0.20	0.017	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Endosulfan sulfate	ND		0.20	0.019	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Endrin	ND		0.20	0.016	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Endrin aldehyde	ND		0.20	0.020	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Endrin ketone	ND		0.20	0.026	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
gamma-BHC (Lindane)	ND		0.10	0.030	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Heptachlor	ND		0.20	0.046	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Heptachlor epoxide	ND		0.10	0.00030	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Methoxychlor	ND		1.0	0.026	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
oxy-Chlordane	ND		0.20	0.030	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
Toxaphene	ND		10	2.3	ug/Kg		10/06/15 10:34	11/19/15 20:54	1
trans-Nonachlor	ND		0.20	0.030	ug/Kg		10/06/15 10:34	11/19/15 20:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*39*	*X*	*60 - 128*	*10/06/15 10:34*	*11/19/15 20:54*	*1*
Tetrachloro-m-xylene	*39*		*35 - 129*	*10/06/15 10:34*	*11/19/15 20:54*	*1*

Lab Sample ID: LCS 580-202548/8-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlordane (technical)	25.0	13.0		ug/Kg		52	45 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*36*	*X*	*60 - 128*
Tetrachloro-m-xylene	*39*		*35 - 129*

Lab Sample ID: LCSD 580-202548/9-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202548

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane (technical)	25.0	16.9		ug/Kg		68	45 - 131	26	40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 580-202548/9-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202548

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	40	X	60 - 128
Tetrachloro-m-xylene	45		35 - 129

Lab Sample ID: MB 580-202997/1-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.20	0.015	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
4,4'-DDT	ND		0.20	0.015	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Aldrin	ND		0.10	0.022	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
alpha-BHC	ND		0.10	0.028	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
beta-BHC	ND		0.10	0.032	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Chlordane (technical)	ND		1.0	0.14	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
delta-BHC	ND		0.10	0.015	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Dieldrin	0.0129	J	0.20	0.012	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endosulfan II	ND		0.20	0.017	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endosulfan sulfate	ND		0.20	0.019	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endrin	ND		0.20	0.016	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endrin aldehyde	ND		0.20	0.020	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Endrin ketone	0.0486	J	0.20	0.026	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
gamma-BHC (Lindane)	ND		0.10	0.030	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Heptachlor	0.0657	J	0.20	0.046	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Heptachlor epoxide	0.00600	J	0.10	0.00030	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Methoxychlor	ND		1.0	0.026	ug/Kg		10/10/15 13:26	10/22/15 20:13	1
Toxaphene	ND		10	2.3	ug/Kg		10/10/15 13:26	10/22/15 20:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	40	X	60 - 128	10/10/15 13:26	10/22/15 20:13	1
Tetrachloro-m-xylene	52		35 - 129	10/10/15 13:26	10/22/15 20:13	1

Lab Sample ID: MB 580-202997/1-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.20	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
2,4'-DDE	ND		0.20	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
2,4'-DDT	ND		0.20	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
4,4'-DDD	ND		0.20	0.015	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
4,4'-DDE	ND		0.20	0.014	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
4,4'-DDT	ND		0.20	0.015	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Aldrin	ND		0.10	0.022	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
alpha-BHC	ND		0.10	0.028	ug/Kg		10/10/15 13:26	11/18/15 23:28	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-202997/1-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		0.10	0.013	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
beta-BHC	ND		0.10	0.032	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Chlordane (technical)	ND		1.0	0.14	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
cis-Nonachlor	ND		0.20	0.019	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
delta-BHC	ND		0.10	0.015	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Dieldrin	ND		0.20	0.012	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endosulfan I	ND		0.10	0.010	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endosulfan II	ND		0.20	0.017	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endosulfan sulfate	ND		0.20	0.019	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endrin	ND		0.20	0.016	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endrin aldehyde	ND		0.20	0.020	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Endrin ketone	ND		0.20	0.026	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
gamma-BHC (Lindane)	ND		0.10	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
gamma-Chlordane	ND		0.10	0.013	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Heptachlor	ND		0.20	0.046	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Heptachlor epoxide	ND		0.10	0.00030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Methoxychlor	ND		1.0	0.026	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
oxy-Chlordane	ND		0.20	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
Toxaphene	ND		10	2.3	ug/Kg		10/10/15 13:26	11/18/15 23:28	1
trans-Nonachlor	ND		0.20	0.030	ug/Kg		10/10/15 13:26	11/18/15 23:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*32*	*X*	*60 - 128*	*10/10/15 13:26*	*11/18/15 23:28*	*1*
DCB Decachlorobiphenyl	*51*	*X*	*60 - 128*	*10/10/15 13:26*	*11/18/15 23:28*	*1*
Tetrachloro-m-xylene	*47*		*35 - 129*	*10/10/15 13:26*	*11/18/15 23:28*	*1*
Tetrachloro-m-xylene	*46*		*35 - 129*	*10/10/15 13:26*	*11/18/15 23:28*	*1*

Lab Sample ID: LCS 580-202997/2-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.00	3.37		ug/Kg		67	48 - 136
4,4'-DDE	5.00	3.27		ug/Kg		65	50 - 138
4,4'-DDT	5.00	3.59		ug/Kg		72	53 - 132
Aldrin	5.00	2.98		ug/Kg		60	59 - 127
alpha-BHC	5.00	3.01		ug/Kg		60	48 - 132
alpha-Chlordane	5.00	3.16		ug/Kg		63	52 - 137
beta-BHC	5.00	2.93		ug/Kg		59	45 - 122
delta-BHC	5.00	3.31		ug/Kg		66	27 - 124
Dieldrin	5.00	3.38		ug/Kg		68	53 - 145
Endosulfan I	5.00	3.12		ug/Kg		62	57 - 140
Endosulfan II	5.00	3.45		ug/Kg		69	58 - 144
Endosulfan sulfate	5.00	3.20		ug/Kg		64	55 - 125
Endrin	5.00	3.36		ug/Kg		67	51 - 143
Endrin aldehyde	5.00	4.19		ug/Kg		84	45 - 130
Endrin ketone	5.00	3.29		ug/Kg		66	53 - 139
gamma-BHC (Lindane)	5.00	2.97		ug/Kg		59	47 - 127

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 580-202997/2-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-Chlordane	5.00	3.22		ug/Kg		64	52 - 137
Heptachlor	5.00	3.55		ug/Kg		71	43 - 141
Heptachlor epoxide	5.00	3.12		ug/Kg		62	47 - 143
Methoxychlor	5.00	3.86		ug/Kg		77	56 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*43*	*X*	*60 - 128*
Tetrachloro-m-xylene	*56*		*35 - 129*

Lab Sample ID: LCS 580-202997/8-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlordane (technical)	25.0	21.1		ug/Kg		85	45 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*36*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*56*	*X*	*60 - 128*
Tetrachloro-m-xylene	*50*		*35 - 129*
Tetrachloro-m-xylene	*49*		*35 - 129*

Lab Sample ID: LCSD 580-202997/3-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	5.00	3.49		ug/Kg		70	48 - 136	4	18
4,4'-DDE	5.00	3.38		ug/Kg		68	50 - 138	3	17
4,4'-DDT	5.00	3.69		ug/Kg		74	53 - 132	3	20
Aldrin	5.00	3.12		ug/Kg		62	59 - 127	5	19
alpha-BHC	5.00	3.08		ug/Kg		62	48 - 132	2	17
alpha-Chlordane	5.00	3.31		ug/Kg		66	52 - 137	5	17
beta-BHC	5.00	3.01		ug/Kg		60	45 - 122	3	18
delta-BHC	5.00	3.36		ug/Kg		67	27 - 124	2	19
Dieldrin	5.00	3.45		ug/Kg		69	53 - 145	2	18
Endosulfan I	5.00	3.21		ug/Kg		64	57 - 140	3	19
Endosulfan II	5.00	3.59		ug/Kg		72	58 - 144	4	19
Endosulfan sulfate	5.00	3.22		ug/Kg		64	55 - 125	1	18
Endrin	5.00	3.46		ug/Kg		69	51 - 143	3	18
Endrin aldehyde	5.00	4.41		ug/Kg		88	45 - 130	5	21
Endrin ketone	5.00	3.32		ug/Kg		66	53 - 139	1	17
gamma-BHC (Lindane)	5.00	3.00		ug/Kg		60	47 - 127	1	17
gamma-Chlordane	5.00	3.35		ug/Kg		67	52 - 137	4	17
Heptachlor	5.00	3.75		ug/Kg		75	43 - 141	5	18
Heptachlor epoxide	5.00	3.19		ug/Kg		64	47 - 143	2	17
Methoxychlor	5.00	3.80		ug/Kg		76	56 - 137	2	17

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 580-202997/3-A
Matrix: Solid
Analysis Batch: 204005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202997

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*43*	*X*	*60 - 128*
Tetrachloro-m-xylene	*56*		*35 - 129*

Lab Sample ID: LCSD 580-202997/9-A
Matrix: Solid
Analysis Batch: 206045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202997

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane (technical)			25.0	22.8		ug/Kg		91	45 - 131	8	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*38*	*X*	*60 - 128*
DCB Decachlorobiphenyl	*60*		*60 - 128*
Tetrachloro-m-xylene	*53*		*35 - 129*
Tetrachloro-m-xylene	*55*		*35 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-202548/1-A
Matrix: Solid
Analysis Batch: 205471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.050	ug/Kg		10/06/15 10:34	11/12/15 13:47	1
PCB-1221	ND		1.1	0.34	ug/Kg		10/06/15 10:34	11/12/15 13:47	1
PCB-1232	ND		1.1	0.22	ug/Kg		10/06/15 10:34	11/12/15 13:47	1
PCB-1242	ND		1.0	0.21	ug/Kg		10/06/15 10:34	11/12/15 13:47	1
PCB-1248	ND		1.1	0.16	ug/Kg		10/06/15 10:34	11/12/15 13:47	1
PCB-1254	ND		1.0	0.090	ug/Kg		10/06/15 10:34	11/12/15 13:47	1
PCB-1260	ND		1.0	0.13	ug/Kg		10/06/15 10:34	11/12/15 13:47	1
PCB-1262	ND		1.0	0.19	ug/Kg		10/06/15 10:34	11/12/15 13:47	1
PCB-1268	ND		1.0	0.21	ug/Kg		10/06/15 10:34	11/12/15 13:47	1
Polychlorinated biphenyls, Total	ND		1.1	0.34	ug/Kg		10/06/15 10:34	11/12/15 13:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*50 - 140*	*10/06/15 10:34*	*11/12/15 13:47*	*1*
Tetrachloro-m-xylene	*57*		*45 - 135*	*10/06/15 10:34*	*11/12/15 13:47*	*1*

Lab Sample ID: LCS 580-202548/4-A
Matrix: Solid
Analysis Batch: 205471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202548

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			25.0	18.2		ug/Kg		73	40 - 140		
PCB-1260			25.0	19.5		ug/Kg		78	60 - 130		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 580-202548/4-A
Matrix: Solid
Analysis Batch: 205471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202548

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*50 - 140*
Tetrachloro-m-xylene	*58*		*45 - 135*

Lab Sample ID: LCSD 580-202548/5-A
Matrix: Solid
Analysis Batch: 205471

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202548

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	25.0	20.2		ug/Kg		81	40 - 140	10	20
PCB-1260	25.0	23.3		ug/Kg		93	60 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*70*		*50 - 140*
Tetrachloro-m-xylene	*59*		*45 - 135*

Lab Sample ID: 580-53787-2 MS
Matrix: Solid
Analysis Batch: 205471

Client Sample ID: MW-1-9
Prep Type: Total/NA
Prep Batch: 202548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND	F1 F2	34.3	73.3	E F1	ug/Kg	☼	214	40 - 140
PCB-1260	ND	F1	34.3	127	E F1	ug/Kg	☼	370	60 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*61*		*50 - 140*
Tetrachloro-m-xylene	*58*		*45 - 135*

Lab Sample ID: 580-53787-2 MSD
Matrix: Solid
Analysis Batch: 205471

Client Sample ID: MW-1-9
Prep Type: Total/NA
Prep Batch: 202548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1 F2	35.2	93.2	E F1 F2	ug/Kg	☼	265	40 - 140	24	20
PCB-1260	ND	F1	35.2	135	E F1	ug/Kg	☼	385	60 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*50 - 140*
Tetrachloro-m-xylene	*65*		*45 - 135*

Lab Sample ID: MB 580-202997/1-A
Matrix: Solid
Analysis Batch: 203830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.050	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1221	ND		1.1	0.34	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1232	ND		1.1	0.22	ug/Kg		10/10/15 13:26	10/20/15 20:19	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 580-202997/1-A
Matrix: Solid
Analysis Batch: 203830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		1.0	0.21	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1248	ND		1.1	0.16	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1254	ND		1.0	0.090	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1260	ND		1.0	0.13	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1262	ND		1.0	0.19	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
PCB-1268	ND		1.0	0.21	ug/Kg		10/10/15 13:26	10/20/15 20:19	1
Polychlorinated biphenyls, Total	ND		1.1	0.34	ug/Kg		10/10/15 13:26	10/20/15 20:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*50 - 140*	*10/10/15 13:26*	*10/20/15 20:19*	*1*
Tetrachloro-m-xylene	*50*		*45 - 135*	*10/10/15 13:26*	*10/20/15 20:19*	*1*

Lab Sample ID: LCS 580-202997/4-A
Matrix: Solid
Analysis Batch: 203928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	100	65.5		ug/Kg		65	40 - 140
PCB-1260	100	72.3		ug/Kg		72	60 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*50 - 140*
Tetrachloro-m-xylene	*65*		*45 - 135*

Lab Sample ID: LCSD 580-202997/5-A
Matrix: Solid
Analysis Batch: 203928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	100	66.3		ug/Kg		66	40 - 140	7	20
PCB-1260	100	71.3		ug/Kg		71	60 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*50 - 140*
Tetrachloro-m-xylene	*62*		*45 - 135*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-202434/1-A
Matrix: Solid
Analysis Batch: 202603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	3.6	mg/Kg		10/03/15 15:42	10/06/15 19:48	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		10/03/15 15:42	10/06/15 19:48	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-202434/1-A
Matrix: Solid
Analysis Batch: 202603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202434

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150	10/03/15 15:42	10/06/15 19:48	1

Lab Sample ID: LCS 580-202434/2-A
Matrix: Solid
Analysis Batch: 202603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202434

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			500	413		mg/Kg		83	70 - 125		
Motor Oil (>C24-C36)			502	470		mg/Kg		94	64 - 127		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	80		50 - 150

Lab Sample ID: LCSD 580-202434/3-A
Matrix: Solid
Analysis Batch: 202603

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202434

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			500	408		mg/Kg		82	70 - 125	1	16
Motor Oil (>C24-C36)			502	467		mg/Kg		93	64 - 127	1	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	78		50 - 150

Lab Sample ID: 580-53787-1 DU
Matrix: Solid
Analysis Batch: 202603

Client Sample ID: MW-1-2
Prep Type: Total/NA
Prep Batch: 202434

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
#2 Diesel (C10-C24)	6.6	J		10.1	J F5	mg/Kg	☼			42	35
Motor Oil (>C24-C36)	ND			31.1	J	mg/Kg	☼			NC	35

Surrogate	DU %Recovery	DU Qualifier	Limits
o-Terphenyl	65		50 - 150

Lab Sample ID: MB 580-203017/1-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	3.6	mg/Kg		10/11/15 08:58	10/12/15 17:26	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		10/11/15 08:58	10/12/15 17:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	10/11/15 08:58	10/12/15 17:26	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-203017/2-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203017

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			500	464		mg/Kg		93	70 - 125		
Motor Oil (>C24-C36)			502	483		mg/Kg		96	64 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*91*		*50 - 150*

Lab Sample ID: LCSD 580-203017/3-A
Matrix: Solid
Analysis Batch: 203114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203017

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			500	477		mg/Kg		95	70 - 125	3	16
Motor Oil (>C24-C36)			502	500		mg/Kg		100	64 - 127	3	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*91*		*50 - 150*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-203391/21-A
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		15	15	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Antimony	ND		0.10	0.021	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Arsenic	ND		0.25	0.090	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Barium	ND		0.25	0.039	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Cadmium	ND		0.10	0.0095	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Chromium	ND		0.25	0.032	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Copper	ND		0.20	0.049	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Lead	ND		0.25	0.024	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Magnesium	ND		50	1.3	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Nickel	ND		0.25	0.041	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Silver	ND		0.10	0.0060	mg/Kg		10/15/15 07:07	10/15/15 23:58	5
Zinc	ND		2.5	0.56	mg/Kg		10/15/15 07:07	10/15/15 23:58	5

Lab Sample ID: LCS 580-203391/22-A
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			500	535		mg/Kg		107	80 - 120		
Antimony			150	152		mg/Kg		101	80 - 120		
Arsenic			200	199		mg/Kg		100	80 - 120		
Barium			200	210		mg/Kg		105	80 - 120		
Cadmium			5.00	5.36		mg/Kg		107	80 - 120		

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-203391/22-A
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Lead	50.0	48.3		mg/Kg		97	80 - 120
Magnesium	1000	1040		mg/Kg		104	80 - 120
Nickel	50.0	49.7		mg/Kg		99	80 - 120
Silver	30.0	26.9		mg/Kg		90	80 - 120
Zinc	200	196		mg/Kg		98	80 - 120

Lab Sample ID: LCSD 580-203391/23-A
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203391

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	500	544		mg/Kg		109	80 - 120	2	20
Antimony	150	150		mg/Kg		100	80 - 120	1	20
Arsenic	200	199		mg/Kg		100	80 - 120	0	20
Barium	200	209		mg/Kg		105	80 - 120	0	20
Cadmium	5.00	5.38		mg/Kg		108	80 - 120	0	20
Chromium	20.0	19.0		mg/Kg		95	80 - 120	1	20
Copper	25.0	24.0		mg/Kg		96	80 - 120	1	20
Lead	50.0	48.6		mg/Kg		97	80 - 120	1	20
Magnesium	1000	1070		mg/Kg		107	80 - 120	2	20
Nickel	50.0	49.8		mg/Kg		100	80 - 120	0	20
Silver	30.0	27.1		mg/Kg		90	80 - 120	1	20
Zinc	200	197		mg/Kg		99	80 - 120	1	20

Lab Sample ID: MB 580-203402/21-A
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		15	15	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Antimony	ND		0.10	0.021	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Arsenic	ND		0.25	0.090	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Barium	ND		0.25	0.039	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Cadmium	ND		0.10	0.0095	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Chromium	ND		0.25	0.032	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Copper	ND		0.20	0.049	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Lead	ND		0.25	0.024	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Magnesium	ND		50	1.3	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Nickel	ND		0.25	0.041	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Silver	ND		0.10	0.0060	mg/Kg		10/15/15 08:55	10/15/15 21:16	5
Zinc	ND		2.5	0.56	mg/Kg		10/15/15 08:55	10/15/15 21:16	5

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-203402/22-A
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203402

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	500	540		mg/Kg		108	80 - 120
Antimony	150	149		mg/Kg		99	80 - 120
Arsenic	200	197		mg/Kg		99	80 - 120
Barium	200	206		mg/Kg		103	80 - 120
Cadmium	5.00	4.96		mg/Kg		99	80 - 120
Chromium	20.0	18.4		mg/Kg		92	80 - 120
Copper	25.0	24.2		mg/Kg		97	80 - 120
Lead	50.0	48.2		mg/Kg		96	80 - 120
Magnesium	1000	1060		mg/Kg		106	80 - 120
Nickel	50.0	49.6		mg/Kg		99	80 - 120
Silver	30.0	26.9		mg/Kg		90	80 - 120
Zinc	200	197		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 580-203402/23-A
Matrix: Solid
Analysis Batch: 203564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203402

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	500	556		mg/Kg		111	80 - 120	3	20
Antimony	150	149		mg/Kg		99	80 - 120	0	20
Arsenic	200	198		mg/Kg		99	80 - 120	0	20
Barium	200	205		mg/Kg		103	80 - 120	0	20
Cadmium	5.00	5.08		mg/Kg		102	80 - 120	2	20
Chromium	20.0	18.7		mg/Kg		93	80 - 120	1	20
Copper	25.0	24.2		mg/Kg		97	80 - 120	0	20
Lead	50.0	48.4		mg/Kg		97	80 - 120	0	20
Magnesium	1000	1070		mg/Kg		107	80 - 120	0	20
Nickel	50.0	49.4		mg/Kg		99	80 - 120	1	20
Silver	30.0	27.1		mg/Kg		90	80 - 120	0	20
Zinc	200	197		mg/Kg		99	80 - 120	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-203417/21-A
Matrix: Solid
Analysis Batch: 203496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0060	mg/Kg		10/15/15 09:35	10/15/15 12:34	1

Lab Sample ID: LCS 580-203417/22-A
Matrix: Solid
Analysis Batch: 203496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-203417/23-A
Matrix: Solid
Analysis Batch: 203496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203417

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.167	0.150		mg/Kg		90	80 - 120	3	20

Lab Sample ID: 580-53787-4 MS
Matrix: Solid
Analysis Batch: 203496

Client Sample ID: BG-1-3
Prep Type: Total/NA
Prep Batch: 203417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.0076	J	0.175	0.199		mg/Kg	☼	109	80 - 120		

Lab Sample ID: 580-53787-4 MSD
Matrix: Solid
Analysis Batch: 203496

Client Sample ID: BG-1-3
Prep Type: Total/NA
Prep Batch: 203417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0076	J	0.182	0.205		mg/Kg	☼	108	80 - 120	3	20

Lab Sample ID: 580-53787-4 DU
Matrix: Solid
Analysis Batch: 203496

Client Sample ID: BG-1-3
Prep Type: Total/NA
Prep Batch: 203417

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.0076	J	0.0180	J F5	mg/Kg	☼	81	20

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-203147/3
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			10/12/15 14:37	1
TOC Result 1	ND		2000	44	mg/Kg			10/12/15 14:37	1

Lab Sample ID: LCS 580-203147/4
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates			4620	4640		mg/Kg		100	49 - 151		

Lab Sample ID: LCSD 580-203147/5
Matrix: Solid
Analysis Batch: 203147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates			4620	4620		mg/Kg		100	49 - 151	0	35

Method: 9060_PSEP - TOC (Puget Sound) (Continued)

Lab Sample ID: MB 580-203474/3
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			10/14/15 19:35	1
TOC Result 1	ND		2000	44	mg/Kg			10/14/15 19:35	1

Lab Sample ID: LCS 580-203474/4
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates			4620	4470		mg/Kg		97	49 - 151		

Lab Sample ID: LCSD 580-203474/5
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates			4620	4080		mg/Kg		88	49 - 151	9	35

Lab Sample ID: 580-53787-4 MS
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: BG-1-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates	300	J	61900	57900		mg/Kg		93	50 - 140		

Lab Sample ID: 580-53787-4 MSD
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: BG-1-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	300	J	61200	57400		mg/Kg		93	50 - 140	1	35

Lab Sample ID: 580-53787-4 DU
Matrix: Solid
Analysis Batch: 203474

Client Sample ID: BG-1-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon - Duplicates	300	J	209	J	mg/Kg				36	50
TOC Result 2	250	J	192	J	mg/Kg				28	
TOC Result 1	350	J	225	J	mg/Kg				43	

Client Sample ID: MW-1-2
Date Collected: 09/29/15 15:37
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203147	10/12/15 15:15	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-1-2
Date Collected: 09/29/15 15:37
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-1
Matrix: Solid
Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202553	10/06/15 10:47	CTT	TAL SEA
Total/NA	Analysis	8260C		1	202536	10/06/15 16:43	TL1	TAL SEA
Total/NA	Prep	3550B			202448	10/04/15 09:47	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203587	10/17/15 01:04	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:42	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/06/15 20:45	TL1	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8081B		1	206045	11/20/15 00:37	DMW	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8082A		1	205471	11/12/15 14:37	DCV	TAL SEA
Total/NA	Prep	3546			202434	10/03/15 15:42	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202603	10/06/15 20:42	NMI	TAL SEA
Total/NA	Prep	3050B			203391	10/15/15 07:07	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/16/15 02:01	FCW	TAL SEA
Total/NA	Prep	7471A			203417	10/15/15 09:35	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 12:51	FCW	TAL SEA

Client Sample ID: MW-1-9
Date Collected: 09/29/15 15:48
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-1-9
Date Collected: 09/29/15 15:48
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-2
Matrix: Solid
Percent Solids: 70.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			202448	10/04/15 09:47	DCV	TAL SEA
Total/NA	Analysis	8270D		10	203587	10/17/15 01:29	ERB	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8082A		1	205471	11/12/15 14:53	DCV	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-1-9

Date Collected: 09/29/15 15:48
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-2

Matrix: Solid
Percent Solids: 70.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			203391	10/15/15 07:07	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/16/15 02:05	FCW	TAL SEA

Client Sample ID: MW-1-12

Date Collected: 09/29/15 15:58
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203147	10/12/15 15:21	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-1-12

Date Collected: 09/29/15 15:58
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-3

Matrix: Solid
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202553	10/06/15 10:47	CTT	TAL SEA
Total/NA	Analysis	8260C		1	202536	10/06/15 17:10	TL1	TAL SEA
Total/NA	Prep	3550B			202448	10/04/15 09:47	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203587	10/17/15 02:20	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:42	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/06/15 21:16	TL1	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8081B		1	206045	11/20/15 00:54	DMW	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8082A		1	205471	11/12/15 15:44	DCV	TAL SEA
Total/NA	Prep	3546			202434	10/03/15 15:42	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202603	10/06/15 21:18	NMI	TAL SEA
Total/NA	Prep	3050B			203391	10/15/15 07:07	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/16/15 02:09	FCW	TAL SEA
Total/NA	Prep	7471A			203417	10/15/15 09:35	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 12:56	FCW	TAL SEA

Client Sample ID: BG-1-3

Date Collected: 09/30/15 09:00
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 19:43	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: BG-1-3

Lab Sample ID: 580-53787-4

Date Collected: 09/30/15 09:00
Matrix: Solid
Date Received: 09/30/15 16:00
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202553	10/06/15 10:47	CTT	TAL SEA
Total/NA	Analysis	8260C		1	202536	10/06/15 17:37	TL1	TAL SEA
Total/NA	Prep	3550B			202448	10/04/15 09:47	DCV	TAL SEA
Total/NA	Analysis	8270D		5	203587	10/17/15 02:46	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:42	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/06/15 21:47	TL1	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8081B		1	206045	11/20/15 01:11	DMW	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8082A		1	205471	11/12/15 16:00	DCV	TAL SEA
Total/NA	Prep	3546			202434	10/03/15 15:42	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202603	10/06/15 21:36	NMI	TAL SEA
Total/NA	Prep	3050B			203391	10/15/15 07:07	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/16/15 02:14	FCW	TAL SEA
Total/NA	Prep	7471A			203417	10/15/15 09:35	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 12:41	FCW	TAL SEA

Client Sample ID: BG-1-23

Lab Sample ID: 580-53787-5

Date Collected: 09/30/15 09:48
Matrix: Solid
Date Received: 09/30/15 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 19:59	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: BG-1-23

Lab Sample ID: 580-53787-5

Date Collected: 09/30/15 09:48
Matrix: Solid
Date Received: 09/30/15 16:00
Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202553	10/06/15 10:47	CTT	TAL SEA
Total/NA	Analysis	8260C		1	202536	10/06/15 18:04	TL1	TAL SEA
Total/NA	Prep	3550B			202448	10/04/15 09:47	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203587	10/17/15 03:11	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:42	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/06/15 22:19	TL1	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8081B		1	206045	11/20/15 03:11	DMW	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8082A		1	205471	11/12/15 16:17	DCV	TAL SEA
Total/NA	Prep	3546			202434	10/03/15 15:42	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202603	10/06/15 21:54	NMI	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: BG-1-23
Date Collected: 09/30/15 09:48
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-5
Matrix: Solid
Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			203391	10/15/15 07:07	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/16/15 02:18	FCW	TAL SEA
Total/NA	Prep	7471A			203417	10/15/15 09:35	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 13:03	FCW	TAL SEA

Client Sample ID: MW-1-2.5
Date Collected: 09/30/15 10:42
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:03	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-1-2.5
Date Collected: 09/30/15 10:42
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-6
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202553	10/06/15 10:47	CTT	TAL SEA
Total/NA	Analysis	8260C		1	202536	10/06/15 18:31	TL1	TAL SEA
Total/NA	Prep	3550B			202448	10/04/15 09:47	DCV	TAL SEA
Total/NA	Analysis	8270D		10	203587	10/17/15 04:28	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:42	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/06/15 22:50	TL1	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8081B		5	206045	11/20/15 03:28	DMW	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8082A		1	205471	11/12/15 16:34	DCV	TAL SEA
Total/NA	Prep	3546			202434	10/03/15 15:42	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202603	10/06/15 22:12	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 23:13	FCW	TAL SEA
Total/NA	Prep	7471A			203417	10/15/15 09:35	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 13:05	FCW	TAL SEA

Client Sample ID: BG-2-3
Date Collected: 09/30/15 12:57
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:08	JSM	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: BG-2-3

Lab Sample ID: 580-53787-7
Date Collected: 09/30/15 12:57
Matrix: Solid
Date Received: 09/30/15 16:00
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			202553	10/06/15 10:47	CTT	TAL SEA
Total/NA	Analysis	8260C		1	202536	10/06/15 18:58	TL1	TAL SEA
Total/NA	Prep	3550B			202448	10/04/15 09:47	DCV	TAL SEA
Total/NA	Analysis	8270D		5	203587	10/17/15 04:53	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:42	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/06/15 23:21	TL1	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8081B		5	206045	11/20/15 03:45	DMW	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8082A		1	205471	11/12/15 16:50	DCV	TAL SEA
Total/NA	Prep	3546			202434	10/03/15 15:42	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202603	10/06/15 22:30	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 23:17	FCW	TAL SEA
Total/NA	Prep	7471A			203417	10/15/15 09:35	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 13:08	FCW	TAL SEA

Client Sample ID: MW-1-22-A

Lab Sample ID: 580-53787-9
Date Collected: 09/29/15 16:17
Matrix: Solid
Date Received: 09/30/15 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203147	10/12/15 15:26	RSB	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Client Sample ID: MW-1-22-A

Lab Sample ID: 580-53787-9
Date Collected: 09/29/15 16:17
Matrix: Solid
Date Received: 09/30/15 16:00
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			202687	10/07/15 15:52	CTT	TAL SEA
Total/NA	Analysis	8260C		1	202766	10/08/15 16:25	D1R	TAL SEA
Total/NA	Prep	3550B			202448	10/04/15 09:47	DCV	TAL SEA
Total/NA	Analysis	8270D		5	203587	10/17/15 05:19	ERB	TAL SEA
Total/NA	Prep	5035			203228	10/13/15 15:51	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	203258	10/14/15 01:24	D1R	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8082A		1	205471	11/12/15 17:07	DCV	TAL SEA
Total/NA	Prep	3546			202434	10/03/15 15:42	KZ1	TAL SEA

Client Sample ID: MW-1-22-A

Date Collected: 09/29/15 16:17
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-9

Matrix: Solid
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Dx		1	202603	10/06/15 23:06	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 23:22	FCW	TAL SEA
Total/NA	Prep	7471A			203417	10/15/15 09:35	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 13:10	FCW	TAL SEA

Client Sample ID: BG-1-7-A

Date Collected: 09/30/15 09:16
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:13	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202941	10/09/15 17:13	DGY	TAL SEA

Client Sample ID: BG-1-7-A

Date Collected: 09/30/15 09:16
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-11

Matrix: Solid
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	203054	10/12/15 18:18	K1K	TAL SEA
Total/NA	Prep	5035	RA		203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C	RA	1	204000	10/22/15 16:38	JMB	TAL SEA
Total/NA	Prep	3550B			202998	10/10/15 14:08	KZ1	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 07:56	AHP	TAL SEA
Total/NA	Prep	3550B	RA		202998	10/10/15 14:08	KZ1	TAL SEA
Total/NA	Analysis	8270D	RA	1	204188	10/25/15 17:42	AHP	TAL SEA
Total/NA	Prep	5035			203228	10/13/15 15:51	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	203258	10/14/15 01:57	D1R	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:28	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	204005	10/22/15 21:39	DFE	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:28	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	206045	11/19/15 04:20	DMW	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:28	KZ1	TAL SEA
Total/NA	Analysis	8082A		1	203830	10/20/15 22:15	DFE	TAL SEA
Total/NA	Prep	3546			203017	10/11/15 08:58	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203114	10/12/15 19:31	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 23:26	FCW	TAL SEA
Total/NA	Prep	7471A			203417	10/15/15 09:35	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 13:13	FCW	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-5-17-A

Lab Sample ID: 580-53787-15

Date Collected: 09/30/15 11:23

Matrix: Solid

Date Received: 09/30/15 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202935	10/09/15 15:47	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:24	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202941	10/09/15 17:13	DGY	TAL SEA

Client Sample ID: MW-5-17-A

Lab Sample ID: 580-53787-15

Date Collected: 09/30/15 11:23

Matrix: Solid

Date Received: 09/30/15 16:00

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C		1	203054	10/12/15 18:51	K1K	TAL SEA
Total/NA	Prep	5035	RA		203073	10/12/15 10:34	CTT	TAL SEA
Total/NA	Analysis	8260C	RA	1	204000	10/22/15 17:11	JMB	TAL SEA
Total/NA	Prep	3550B			202998	10/10/15 14:08	KZ1	TAL SEA
Total/NA	Analysis	8270D		1	203867	10/21/15 09:12	AHP	TAL SEA
Total/NA	Prep	3550B	RA		202998	10/10/15 14:08	KZ1	TAL SEA
Total/NA	Analysis	8270D	RA	1	204188	10/25/15 18:59	AHP	TAL SEA
Total/NA	Prep	5035			203228	10/13/15 15:51	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	203258	10/14/15 02:30	D1R	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:28	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	204005	10/22/15 21:56	DFE	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:28	KZ1	TAL SEA
Total/NA	Analysis	8081B		1	206045	11/19/15 04:38	DMW	TAL SEA
Total/NA	Prep	3550B			202997	10/10/15 13:28	KZ1	TAL SEA
Total/NA	Analysis	8082A		1	203830	10/20/15 22:32	DFE	TAL SEA
Total/NA	Prep	3546			203017	10/11/15 08:58	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203114	10/12/15 19:49	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 23:30	FCW	TAL SEA
Total/NA	Prep	7471A			203417	10/15/15 09:35	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 13:15	FCW	TAL SEA

Client Sample ID: MW-5-22-A

Lab Sample ID: 580-53787-16

Date Collected: 09/30/15 11:36

Matrix: Solid

Date Received: 09/30/15 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	202519	10/05/15 14:58	JSM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	203474	10/14/15 20:29	JSM	TAL SEA
Total/NA	Analysis	D 2216		1	202729	10/08/15 09:44	DCV	TAL SEA

Lab Chronicle

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Client Sample ID: MW-5-22-A

Date Collected: 09/30/15 11:36
Date Received: 09/30/15 16:00

Lab Sample ID: 580-53787-16

Matrix: Solid
Percent Solids: 70.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			202687	10/07/15 15:52	CTT	TAL SEA
Total/NA	Analysis	8260C		1	202766	10/08/15 16:52	D1R	TAL SEA
Total/NA	Prep	3550B			202448	10/04/15 09:47	DCV	TAL SEA
Total/NA	Analysis	8270D		1	203587	10/17/15 05:44	ERB	TAL SEA
Total/NA	Prep	5035			202577	10/06/15 13:45	HDK	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	202593	10/07/15 00:23	TL1	TAL SEA
Total/NA	Prep	3550B			202548	10/06/15 10:34	DGY	TAL SEA
Total/NA	Analysis	8082A		1	205471	11/12/15 17:24	DCV	TAL SEA
Total/NA	Prep	3546			202434	10/03/15 15:42	KZ1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202603	10/06/15 23:24	NMI	TAL SEA
Total/NA	Prep	3050B			203402	10/15/15 08:55	MKN	TAL SEA
Total/NA	Analysis	6020A		5	203564	10/15/15 23:35	FCW	TAL SEA
Total/NA	Prep	7471A			203417	10/15/15 09:35	MKN	TAL SEA
Total/NA	Analysis	7471A		1	203496	10/15/15 13:17	FCW	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	02-28-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: GeoPro Geologic Services
Project/Site: Osearan Properties

TestAmerica Job ID: 580-53787-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-53787-1	MW-1-2	Solid	09/29/15 15:37	09/30/15 16:00
580-53787-2	MW-1-9	Solid	09/29/15 15:48	09/30/15 16:00
580-53787-3	MW-1-12	Solid	09/29/15 15:58	09/30/15 16:00
580-53787-4	BG-1-3	Solid	09/30/15 09:00	09/30/15 16:00
580-53787-5	BG-1-23	Solid	09/30/15 09:48	09/30/15 16:00
580-53787-6	MW-1-2.5	Solid	09/30/15 10:42	09/30/15 16:00
580-53787-7	BG-2-3	Solid	09/30/15 12:57	09/30/15 16:00
580-53787-9	MW-1-22-A	Solid	09/29/15 16:17	09/30/15 16:00
580-53787-11	BG-1-7-A	Solid	09/30/15 09:16	09/30/15 16:00
580-53787-15	MW-5-17-A	Solid	09/30/15 11:23	09/30/15 16:00
580-53787-16	MW-5-22-A	Solid	09/30/15 11:36	09/30/15 16:00

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Sea
5755 8th Stree
Tacoma, WA 9
Tel. 253-922-23
Fax 253-922-5
www.testame

580-53787 Chain of Custody

☐ Rush

Short Hold

Soil

Chain of Custody Record

Client	Client Contac	Date	Chain of Custody Number
Geo Pro LLC	Richard Kent	9-30-15	23681
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
PO Box 26	360-907-5648		

City	State	Zip Code	Sampler	Lab Contact
Battleground	WA	98604	Geo Pro	Robert Greer

Project Name and Location (State)
~~ESCI #1007~~ Oseacon Properties

Billing Contact

Contract/Purchase Order/Quote No.
ECSI #1007

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	6020A-LL	NWTPH-Dx	8081B	9045C	9060-PSEP	8082A	7471A	8270D (Mod)	8260C (Mod)	8260 (VOC)	NWTPH-Gx-MS	Special Instructions/ Conditions of Receipt
MW-1-2	9-29-15	1537				X							X	X	X	X	X	X	X	X	X	X	X	3*
MW-1-9	9-29-15	1548				X							X					X		X				1*
MW-1-12	9-29-15	1558				X							X	X	X	X	X	X	X	X	X	X	X	3*
~~MW-~~																								
BG-1-3	9-30-15	0900				X							X	X	X	X	X	X	X	X	X	X	X	3*
~~BG-2~~																								
BG-1-23	9-30-15	0948				X							X	X	X	X	X	X	X	X	X	X	X	4
MW-1-2.5	9-30-15	1042				X							X	X	X	X	X	X	X	X	X	X	X	3*
BG-2-3	9-30-15	1257				X							X	X	X	X	X	X	X	X	X	X	X	3*

* Not enough sample for (2) 8oz containers

Cooler
☒ Yes ☐ No Cooler Temp: ____

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Normal

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	Richard Kent	9-30-15	1530	Jessica Morgan	9/30/15	1530
2.	Jessica Morgan	9/30/15	1600		9/30/15	1600
3.						

Comments

4.6
IR/G-C

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Geo

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

☐ Short Hold

Archive

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
GeoPro LLC	Richard Kent	9-30-15	23683
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
PO Box 26	360-907-5648		

City	State	Zip Code	Sampler	Lab Contact
Battleground	WA	98604	GeoPro	Robert Greer

Project Name and Location (State): Oseran Properties

Billing Contact:

Contract/Purchase Order/Quote No.: ECSI #1007

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Special Instructions/ Conditions of Receipt
MW-1-18-A	9-29-15	1614				X							
MW-1-22-A	9-29-15	1617				X							
MW-1-39-A	9-29-15	1636				X							
BG-1-7-A	9-30-15	0916				X							
BG-1-13-A	9-30-15	0934				X							2 Containers
BG-1-17.5-A	9-30-15	0943				X							
MW-5-12-A	9-30-15	1112				X							1 Containers
MW-5-17-A	9-30-15	1123				X							1 "
MW-5-22-A	9-30-15	1136				X							2 "

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2

Cooler	Possible Hazard Identification	Sample Disposal	
☒ Yes ☐ No Cooler Temp: ____	☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client	☐ Disposal By Lab ☒ Archive For 1 Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)

☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Normal

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	Richard Kent	9-30-15	1530	Jessica Morgan	9/30/15	1530
2.	Jessica Morgan	9/30/15	1600		9/30/15	1600
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

12/4/2015
Appendix C

Login Sample Receipt Checklist

Client: GeoPro Geologic Services

Job Number: 580-53787-1

Login Number: 53787
List Number: 1
Creator: Svabik-Seror, Philip M

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

APPENDIX D
DATA VALIDATION REPORT

DATA VALIDATION REPORT

OSERAN PROPERTIES

Prepared for:

GeoPro
PO Box 26
Battle Ground, WA 98604

Prepared by:

EcoChem, Inc.
1011 Western Avenue, Suite 1006
Seattle, Washington 98104

EcoChem Project: C26902-1

June 21, 2016

Approved for Release:

Christine Ransom
Senior Project Chemist
EcoChem, Inc.

PROJECT NARRATIVE

Basis for the Data Validation

This report summarizes the results of the full validation (EPA Stage 4) performed on soil samples and quality control sample data for the Oseran Properties Site. A complete list of samples is provided in the Sample Index.

Samples were analyzed by Test America Inc., Tacoma Washington. The analytical methods and EcoChem project chemists are listed in the following table:

ANALYSIS	METHOD	PRIMARY REVIEW	SECONDARY REVIEW
Volatile Organic Compounds (VOC)	SW8260D	M. Swanson	C. Frans
Semivolatile Organic Compounds (SVOC)	SW8270D	R. Frans	C. Frans
Pesticides	SW8081B		
PCB Aroclors	SW8082A		
Gasoline Range Organics (GRO)	NWTPH-Gx	M. Swanson	C. Frans
Diesel Range Organics (DRO)	NWTPH-Dx		
Total Metals and Mercury	SW846 6020A, 7471A	E. Clayton	C. Frans
Total Organic Carbon (TOC)	SW9060		
pH	SW9045C		
Total Solids	ASTM D2216		

The data were reviewed using guidance and quality control criteria documented in the analytical methods; *National Functional Guidelines for Organic Data Review* (USEPA, 2008); and *National Functional Guidelines for Inorganic Data Review* (USEPA, 2010).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as APPENDIX A. A Qualified Data Summary Table is included in APPENDIX B. Data Validation Worksheets will be kept on file at EcoChem, Inc.

Sample Index
Oseran Properties

SDG	Laboratory ID	Sample ID	VOC	SVOC	OC Pest	PCB Aroclors	GRO	DRO	Metals	Mercury	Conventionals
53710	580-53710-1	MW-10-1.5	✓	✓	✓	✓	✓	✓	✓	✓	✓
53710	580-53710-3	MW-10-3.5-A	✓	✓	✓	✓	✓	✓	✓	✓	✓
53710	580-53710-7	MW-10-23-A	✓	✓	✓	✓	✓	✓	✓	✓	✓
53747	580-53747-1	MW-9-2	✓	✓	✓	✓	✓	✓	✓	✓	✓
53747	580-53747-14	MW-3-21-A	✓	✓	✓	✓	✓	✓	✓	✓	✓
53747	580-53747-3	MW-3-4.5	✓	✓	✓	✓	✓	✓	✓	✓	✓
53747	580-53747-4	MW-3-1.5	✓	✓	✓	✓	✓	✓	✓	✓	✓
53747	580-53747-7	MW-9-19-A	✓	✓	✓	✓	✓	✓	✓	✓	✓
53787	580-53787-1	MW-1-2	✓	✓	✓	✓	✓	✓	✓	✓	✓
53787	580-53787-11	BG-1-7-A	✓	✓	✓	✓	✓	✓	✓	✓	✓
53787	580-53787-15	MW-5-17-A	✓	✓	✓	✓	✓	✓	✓	✓	✓
53787	580-53787-16	MW-5-22-A	✓	✓		✓	✓	✓	✓	✓	✓
53787	580-53787-2	MW-1-9		✓		✓	✓	✓	✓		✓
53787	580-53787-3	MW-1-12	✓	✓	✓	✓	✓	✓	✓	✓	✓
53787	580-53787-4	BG-1-3	✓	✓	✓	✓	✓	✓	✓	✓	✓
53787	580-53787-5	BG-1-23	✓	✓	✓	✓	✓	✓	✓	✓	✓
53787	580-53787-6	MW-1-2.5	✓	✓	✓	✓	✓	✓	✓	✓	✓
53787	580-53787-7	BG-2-3	✓	✓	✓	✓	✓	✓	✓	✓	✓
53787	580-53787-9	MW-1-22-A	✓	✓		✓	✓	✓	✓	✓	✓
53837	580-53837-1	BG-2-24	✓	✓	✓	✓	✓	✓	✓	✓	✓
53837	580-53837-12	MW-2-8-A	✓	✓	✓	✓	✓	✓	✓	✓	✓
53837	580-53837-2	MW-6-3.5	✓	✓	✓	✓	✓	✓	✓	✓	✓
53837	580-53837-3	MW-6-24.2	✓	✓	✓	✓	✓	✓	✓	✓	✓
53837	580-53837-4	MW-2-2	✓	✓	✓	✓	✓	✓	✓	✓	✓
53837	580-53837-6	MW-4-4	✓	✓	✓	✓	✓	✓	✓	✓	✓
53840	580-53840-1	MW-4-24	✓	✓	✓	✓	✓	✓	✓	✓	✓
53840	580-53840-2	MW-8-4	✓	✓	✓	✓	✓	✓	✓	✓	✓
53840	580-53840-3	MW-8-24	✓	✓	✓	✓	✓	✓	✓	✓	✓
53840	580-53840-4	BG-3-4	✓	✓	✓	✓	✓	✓	✓	✓	✓
53840	580-53840-5	BG-3-22.8		✓	✓	✓		✓	✓	✓	✓

DATA VALIDATION REPORT
GeoPro – Oseran Properties
Volatile Organic Compounds (VOC) by Method SW8260D

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by TestAmerica, Tacoma, Washington. Refer to the SAMPLE INDEX for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
53710	3 Soil	EPA Stage 4
53747	5 Soil	EPA Stage 4
53787	10 Soil	EPA Stage 4
53837	6 Soil	EPA Stage 4
53840	4 Soil	EPA Stage 4

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

A verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package; no errors were found.

TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

2	Sample Receipt, Preservation and Holding Times	✓	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
✓	GC/MS Instrument Performance	1	Field Duplicates
✓	Initial Calibration (ICAL)	✓	Target Analyte List
2	Continuing Calibration Verification (CCV)	2	Reported Results
2	Laboratory Blanks	✓	Compound Identification
1	Field Blanks	✓	Compound Quantitation
✓	Surrogate Compounds	1	Calculation Verification
2	Laboratory Control Samples (LCS/LCSD)		

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.
1 Quality control results are discussed below, but no data were qualified.
2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation and Holding Times

As stated in validation guidance documents, sample coolers should arrive at the laboratory within the advisory temperature range of less than 6°C. Several coolers were received with temperatures greater than the upper control limit, the highest at 11.8°C. Samples were delivered to the laboratory on the day they were collected. The temperature outliers did not impact data quality; therefore, no action was taken.

Samples were preserved and analyzed within the holding time requirements, with the exceptions noted in the table below.

<table>
<tr><th>SDG</th><th>Sample ID</th><th>Holding Time Requirement</th><th>Time Held</th><th>Action</th></tr>
<tr><td rowspan="2">53710</td><td>MW-10-3.5</td><td rowspan="8">48 hours from collection to preservation</td><td rowspan="8">>48 hours</td><td rowspan="13">J/UJ-1</td></tr>
<tr><td>MW-10-23-A</td></tr>
<tr><td rowspan="2">53747</td><td>MW-9-19-A</td></tr>
<tr><td>MW-3-21-A</td></tr>
<tr><td rowspan="3">53787</td><td>MW-1-22-A</td></tr>
<tr><td>MW-5-17-A</td></tr>
<tr><td>BG-1-7-A</td></tr>
<tr><td rowspan="2">53837</td><td>MW-2-8-A</td></tr>
<tr><td>MW-4-4</td><td rowspan="3">14 days from collection to analysis</td><td>15 days</td></tr>
<tr><td rowspan="2">53840</td><td>BG-3-4</td><td rowspan="2">21 days</td></tr>
<tr><td>MW-8-24</td></tr>
</table>

Continuing Calibration Verification

The continuing calibration (CCAL) percent difference (%D) values were within the ±25% control limit, with the exception noted below.

SDG 53787: The %D value for acrolein in the CCAL analyzed on 10/6/15 at 11:50 was greater than the control limit of 25% and indicated a decrease in instrument response. The associated results for this analyte were estimated (UJ-5BL) to indicate a potential low bias.

Laboratory Blanks

Laboratory (method) blanks were analyzed at the appropriate frequency. To assess the impact of each blank contaminant on the reported sample results, an action level was established at five times (5x; 10x for common laboratory contaminants) the concentration detected in the blank. If the concentration in the associated field samples were less than the action level, the results were qualified as not detected (U-7) at the reported concentration. No action was taken if the sample results were greater than the action level or for non-detected results.

SDG 53710: Methylene chloride was detected in both method blanks. This analyte was not detected in the associated field samples; no data were qualified.

SDG 53747: Methylene chloride was detected in both method blanks. Results for this analyte in Samples MW-3-4.5, MW-9-2, and MW-9-19-A were qualified as not detected (U-7).

SDG 53787: Methylene chloride was detected in the method blank for batch 580-203073. Results for this analyte in Samples BG-1-7-A and MW-5-17-A were qualified as not detected (U-7).

SDG 53837: There were positive result for some target analytes in the method blanks for batches 580-202892 and 580-203073, however they were not detected in the associated samples and no qualification of data was necessary.

Several analytes were detected in method blank for batch 580-203469. Results for benzene, o-xylene, tetrachloroethene, and toluene were qualified as not detected (U-7) in Sample MW-4-4.

SDG 53840: Methylene chloride was detected in the method blank analyzed 10/12/15. Results for this analyte in Samples MW-4-24 and MW-8-4 were qualified as not detected (U-7).

Methylene chloride and toluene were reported in the method blank analyzed 10/22/15. Associated samples results were greater than the action limit or the analyte was not detected; no qualifiers required.

Field Blanks

No field blanks were submitted.

Laboratory Control Samples

Laboratory control samples/laboratory control sample duplicate (LCS/LCSD) samples were analyzed at the appropriate frequency. No action is taken unless both the LCS and LCSD percent recovery (%R) values are outside the control limits for LCS/LCSD %R outliers. Precision is evaluated using the RPD values calculated between the LCS and LCSD results. Any RPD values outside the control limits indicate uncertainty in the measured results for the sample.

When the LCS/LCSD %R values indicate a potential low bias, associated results are estimated (J/UJ-10L). Only the associated positive results are estimated (J-10H) if the %R values indicate a potential high bias. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty.

SDG 53787: The %R values for vinyl chloride in the LCS/LCSD analyses for batch 580-202553 were less than the lower control limit. The associated results for this compound were estimated (UJ-10L).

Field Duplicates

No field duplicates were submitted.

Reported Results

SDG 53740: Samples MW-4-24 and MW-8-4 and their associated method blank were reanalyzed outside of hold time due to a positive result for methylene chloride in the method blank. Only methylene chloride was reported from these reanalysis results. Methylene chloride results from the reanalysis were flagged do-not-report (DNR-11) in favor of the methylene chloride results from the original analysis.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory performed the specified analytical method. With the exception noted above, accuracy was acceptable as demonstrated by the surrogate, MS/MSD, and LCS/LCSD recoveries. Precision was acceptable as demonstrated by the MS/MSD and LCS/LCSD relative percent difference values.

Detection limits were elevated based on method blank contamination. Data were estimated due to exceeded holding times, a CCAL %D outlier, and LCS/LCSD recovery outliers.

Results were flagged do-not-report (DNR) to indicate which result should not be used from multiple reported analyses. A usable result remains for all analytes in all sample; completeness is unaffected.

Data that were flagged DNR are not useable for any purpose. All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
GeoPro – Oseran Properties
Semivolatile Organic Compounds (SVOC) by Method SW8270D

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by TestAmerica, Tacoma, Washington. Refer to the SAMPLE INDEX for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
53710	3	EPA Stage 4
53747	5	EPA Stage 4
53787	11	EPA Stage 4
53837	6	EPA Stage 4
53840	5	EPA Stage 4

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation and Holding Times	2	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
✓	GC/MS Instrument Performance	1	Field Duplicates
✓	Initial Calibration (ICAL)	✓	Target Analyte List
✓	Continuing Calibration Verification (CCV)	✓	Reported Results
2	Laboratory Blanks	✓	Compound Identification
1	Field Blanks	✓	Compound Quantitation
✓	Surrogate Compounds	1	Calculation Verification
2	Laboratory Control Samples (LCS/LCSD)		

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.
1 Quality control results are discussed below, but no data were qualified.
2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, Holding Times

As stated in validation guidance documents, sample coolers should arrive at the laboratory within the advisory temperature range of less than 6°C. Several coolers were received with temperatures greater than the upper control limit, the highest at 11.8°C. Samples were delivered to the laboratory on the day they were collected. The temperature outliers did not impact data quality; therefore, no action was taken.

Laboratory Blanks

Laboratory (method) blanks were analyzed at the appropriate frequency. To assess the impact of each blank contaminant on the reported sample results, an action level was established at five times the concentration detected in the blank (10x for phthalates). If the concentration in the associated field samples were less than the action level, the results were qualified as not detected (U-7). No action was taken if the sample results were greater than the action level or for non-detected results.

One or more results for samples associated with the following method blank outliers were qualified as not detected (U-7):

SDG	METHOD BLANK	ANALYTE
53710 53747	MB-580-202235/1-A	Bis(2-ethylhexyl) phthalate Butyl benzyl phthalate Diethyl phthalate
53787	MB-580-202448/1-A	Bis(2-ethylhexyl) phthalate Diethyl phthalate Di-n-butyl phthalate
53837 53840	MB-580-202635/1-A	Bis(2-ethylhexyl) phthalate Butyl benzyl phthalate Diethyl phthalate
53710 53837	580-202944/1-A	Bis(2-ethylhexyl) phthalate Butyl benzyl phthalate Diethyl phthalate Di-n-butyl phthalate
53787 53747	580-202998/1-A	Bis(2-ethylhexyl) phthalate Butyl benzyl phthalate Diethyl phthalate

Field Blanks

There were no field blanks collected with this data set.

Laboratory Control Samples (LCS)

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed at the required frequency of one per batch of 20 or fewer samples. For batches with both and LCS and LCSD, no action is taken unless both the LCS and LCSD %R values are outside the control limits. Precision is evaluated using the relative percent difference (RPD) values calculated between the LCS and LCSD results.

When the LCS/LCSD %R values indicate a potential low bias, associated results are estimated (J/UJ-10L). Only the associated positive results are estimated (J-10H) if the %R values indicate a potential high bias. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty. Qualifiers were issued to all samples in an extraction batch.

SDGs 53710 and 53747: The RPD values for indeno [1,2,3-cd] pyrene, dibenz (a,h) anthracene, and benzo [g,h,i] perylene were greater than the control limit; positive results in the associated samples were estimated (J-9).

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples were analyzed at the appropriate frequency. No action is taken unless both the MS and MSD %R values are outside the control limits for MS/MSD %R outliers. Precision is evaluated using the RPD values calculated between the MS and MSD results. Any RPD values outside the control limits indicate uncertainty in the measured results for the sample. Qualifiers were only issued to the parent sample.

When the MS/MSD %R values indicate a potential low bias, associated results are estimated (J/UJ-8). Only the associated positive results are estimated (J-8) if the %R values indicate a potential high bias. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty.

Although various analytes exhibited recoveries outside the control limits, only the following required qualification in the associated parent sample:

SDG	Parent Sample	Analyte	MS %R	MSD %R	RPD	Potential Bias	Action
53710	MW-10-23-A	Di-n-octylphthalate	22	46	--	Low	J-8L
53787	BG-1-23	Indeno[123cd]pyrene	52	51	--	Low	UJ-8L
		Benzo[ghi]perylene	46	48	--		
53840	MW-4-24	Dimethyl phthalate	75	76	--	Low	UJ-8L
		Acenaphthene	66	67	--	Low	UJ-8L
		Phenanthrene	68	66	--	Low	UJ-8L
		Chrysene	74	74	--	Low	UJ-8L
		Di-n-octyl phthalate	149	148	--	High	J-8H
		Indeno[1,2,3-cd]pyrene	38	38	--	Low	UJ-8L
		Dibenz(a,h)anthracene	39	42	--	Low	UJ-8L
		Benzo[g,h,i]perylene	33	34	--	Low	UJ-8L

Field Duplicates

No field duplicates were submitted.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory performed the specified analytical method. With the exceptions previously noted, accuracy was acceptable as demonstrated by the surrogate, LCS/LCSD, and MS/MSD recoveries and precision was acceptable as demonstrated by the LCS/LCSD and MS/MSD relative percent difference values.

Detection limits were elevated based on method blank contamination. Data were estimated due to laboratory control sample RPD outliers and MS/MSD recovery outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
GeoPro - Oseran Properties
Pesticides by Method SW8081B

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by TestAmerica, Tacoma, Washington. Refer to the SAMPLE INDEX for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
53710	3	Stage 4
53747	5	Stage 4
53787	8	Stage 4
53837	6	Stage 4
53840	5	Stage 4

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG 53747: The results for the laboratory control samples for batch 580-202233 were omitted from the pdf data package and electronic data deliverable. The laboratory was contacted and provided the missing information. The laboratory also indicated that these QC samples were inadvertently not spiked with Toxaphene.

SDG 53787: The results for the laboratory control samples for batch 580-202548 were omitted from the pdf data package and electronic data deliverable. The laboratory was contacted and provided the missing information.

TECHNICAL DATA VALIDATION

This report documents the review of analytical QC requirements as listed in the following table.

2	Sample Receipt, Preservation and Holding Times	2	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
✓	Instrument Performance	1	Field Duplicates
✓	Initial Calibration (ICAL)	✓	Target Analyte List
2	Continuing Calibration Verification (CCV)	2	Reported Results
2	Laboratory Blanks	2	Compound Identification
1	Field Blanks	✓	Compound Quantitation
2	Surrogate Compounds	1	Calculation Verification
2	Laboratory Control Samples (LCS/LCSD)		

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.
1 Quality control results are discussed below, but no data were qualified.
2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, Holding Times

As stated in validation guidance documents, sample coolers should arrive at the laboratory within the advisory temperature range of less than 6°C. Several coolers were received with temperatures greater than the upper control limit, the highest at 11.8°C. Samples were delivered to the laboratory on the day they were collected. The temperature outliers did not impact data quality; therefore, no action was taken.

With the exceptions noted in the following table, samples were analyzed within the method holding time requirements.

SDG	SAMPLE ID	HOLDING TIME REQUIREMENT	TIME HELD	ACTION
53710	MW-10-1.5	40 days from extraction to analysis	48 days	J/UJ-1
53747	MW-3-4.5			
	MW-3-1.5			
	MW-9-2			
53787	BG-1-3		45 days	
	BG-2-3			
	BG-1-23			
	MW-1-12			
	MW-1-2			
	MW-1-2.5			
53837	BG-2-24		55 days	
	MW-2-2			
	MW-4-4			
	MW-6-24.2			
	MW-6-3.5			
53840	MW-4-24		56 days	
	MW-8-4			
	MW-8-24			
	BG-3-4			
	BG-3-22.8			

Continuing Calibration Verification

The continuing calibration (CCAL) percent difference (%D) values were within the ±20% control limit, with the exception noted below.

SDG 53837: The CCAL %D values for technical chlordane and toxaphene were outside the control limit of 20% and indicated a decrease in instrument response. The results for these compounds in Sample MW-2-8-A were estimated (UJ-5BL) to indicate a potential low bias.

Laboratory Blanks

Laboratory (method) blanks were analyzed at the appropriate frequency. To assess the impact of each blank contaminant on the reported sample results, an action level was established at five times (5x; 10x for phthalates) the concentration detected in the blank. If the concentration in the associated field samples were less than the action level, the results were qualified as not detected (U-7). No action was taken if the sample results were greater than the action level or for non-detected results.

One or more results for samples associated with the following method blank outliers were qualified as not detected (U-7):

SDG	Client Sample ID	Analyte
53710	MW-10-3.5-A	Endrin ketone
		4,4'-DDD
	MW-10-23-A	Endrin ketone
		4,4'-DDD
53747	MW-9-19-A	Heptachlor
		Endrin ketone
		Heptachlor epoxide
	MW-3-21-A	Heptachlor epoxide
53787	BG-1-23	Endrin ketone
	MW-5-17-A	Heptachlor
		Endrin ketone
	BG-1-7-A	Heptachlor epoxide
		Endrin ketone
53837	BG-2-24	gamma-BHC (Lindane)
		delta-BHC
	MW-2-8-A	Endrin ketone
		gamma-BHC (Lindane)
		4,4'-DDD
	MW-6-3.5	delta-BHC
	MW-2-2	delta-BHC
53840	MW-4-24	Heptachlor
		Endrin

Field Blanks

There were no field blanks submitted.

Surrogates

The surrogate compounds decachlorobiphenyl (DCBP) and tetrachloro-m-xylene (TCMX) were added to all samples. When the surrogate %R values indicate a potential low bias, associated results are estimated (J/UJ-13L). Only the associated positive results are estimated (J-13H) if the %R values indicate a potential high bias. If one or both surrogates are outside the control limits the associated results in the sample are qualified. Surrogate spike results from samples diluted at a factor of 20x or greater are not evaluated because the dilution prevents accurate recovery of the spiked analyte. Qualifiers are not applied to QC samples. With the exceptions noted below, all surrogate recovery values were within the laboratory control limits.

SDG	Client Sample ID	Analyte	%Recovery	Bias
53747	MW-3-4.5	Decachlorobiphenyl	164	High
	MW-3-21-A	Decachlorobiphenyl	28	Low
53787	BG-1-23	Decachlorobiphenyl	12	
		Tetrachloro-m-xylene	23	
	BG-2-3	Decachlorobiphenyl	11	
	MW-1-12	Decachlorobiphenyl	17	
		Tetrachloro-m-xylene	26	
	MW-1-2	Decachlorobiphenyl	15	
		Tetrachloro-m-xylene	14	
53837	MW-2-2	Tetrachloro-m-xylene	187	High
		Decachlorobiphenyl	180	
	MW-4-4	Decachlorobiphenyl	175	
	MW-6-24.2	Decachlorobiphenyl	179	
	MW-6-3.5	Decachlorobiphenyl	217	
		Tetrachloro-m-xylene	190	
	BG-2-24	Decachlorobiphenyl	150	
53840	MW-8-4	Decachlorobiphenyl	154	
	BG-3-22.8	Decachlorobiphenyl	222	
	BG-3-4	Decachlorobiphenyl	260	
		Tetrachloro-m-xylene	378	
	MW-4-24	Decachlorobiphenyl	333	
		Tetrachloro-m-xylene	281	
	MW-8-24	Decachlorobiphenyl	181	

Laboratory Control Samples

Laboratory control samples (LCS) and/or laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed at the required frequency of one per batch of 20 or fewer samples. For batches with both and LCS and LCSD, no action is taken unless both the LCS and LCSD %R values are outside the control limits. Precision is evaluated using the relative percent difference (RPD) values calculated between the LCS and LCSD results.

When the LCS/LCSD %R values indicate a potential low bias, associated results are estimated (J/UJ-10L). Only associated positive results are estimated (J-10H) if the %R values indicate a potential high bias. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty. Qualifiers were issued to all samples in the extraction batch.

Although various laboratory control samples exhibited recoveries outside control limit, only the following required qualification in the associated field samples:

SDG	Batch	Analyte	LCS %R	LCSD %R	RPD	Potential Bias	Action
53747 53787	580-202997	Toxaphene	36	36	--	Low	UJ-10L
53787	580-202548	4,4'-DDT	31	51	47	Low	J/UJ-9,10L
		4,4'-DDD	--	--	48	--	J-9
		4,4'-DDE	--	--	48	--	J-9
		Aldrin	31	43	32	Low	J/UJ-9,10L
		alpha-BHC	31	38	21	Low	J/UJ-9,10L
		alpha-Chlordane	24	39	47	Low	J/UJ-9,10L
		beta-BHC	30	41	32	Low	J/UJ-9,10L
		delta-BHC	--	--	42	--	J-9
		Dieldrin	27	43	47	Low	J/UJ-9,10L
		Endosulfan I	27	43	42	Low	UJ-10
		Endosulfan II	29	46	48	Low	UJ-10
		Endosulfan Sulfate	28	50	57	Low	UJ-10
		Endrin Aldehyde	31	43	32	Low	J/UJ-9,10L
		Endrin Ketone	32	52		Low	UJ-10
		Gamma-BHC (Lindane)	31	41	27	Low	J/UJ-9,10L
		gamma-Chlordane	29	46	43	Low	UJ-10
		Heptachlor	--	--	31	--	J-9
53840	580-202634	Endosulfan sulfate	130	141	--	High	J-10H

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples were analyzed at the appropriate frequency. No action is taken unless both the MS and MSD %R values are outside the control limits for MS/MSD %R outliers, unless one recovery is less than 10%R. Precision is evaluated using the RPD values

calculated between the MS and MSD results. Any RPD values outside the control limits indicate uncertainty in the measured results for the sample. Qualifiers were only issued to the parent sample.

When the MS/MSD %R values indicate a potential low bias, associated results are estimated (J/UJ-8). Only the associated positive results are estimated (J-8) if the %R values indicate a potential high bias. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty.

Although various analytes exhibited recoveries outside the control limits, only the following required qualification in the associated parent sample:

SDG	Parent Sample	Analyte	MS %R	MSD %R	RPD	Potential Bias	Action
53710	MW-10-3.5-A	Endosulfan II	52	52	-	Low	J-8L
		gamma-BHC (Lindane)	0	0	-	Low	R-8L
		Endrin aldehyde	42	41	-	Low	U-8L
		Aldrin	52	52	-	Low	J-8L
53747	MW-9-19-A	Endrin	0	62	200	-	UJ-8
		alpha-Chlordane	50	46	-	Low	J-8L
		Heptachlor epoxide	0	61	200	-	UJ-8
53837	BG-2-24	Endosulfan sulfate	135	171	22	High	J-8H,9
		Endosulfan II	165	190	-	High	J-8H
		Heptachlor Epoxide	158	170	-	High	J-8H

Field Duplicates

No field duplicates were submitted.

Reported Results

SDG 53787: Sample MW-1-12 result for technical chlordane was reported with a laboratory qualifier "E" indicating the result was greater than the highest calibration standard. The result was qualified (J-20).

The sample results for the analytes listed in the table below were reported as "NC" for not calculated. The laboratory indicated that instrument samples were analyzed on were not calibrated for the requested analytes and there were no results to report. The results were rejected (R-14).

SDG	Sample ID	Analyte	Result
53787	BG-1-23	cis-Nonachlor oxy-Chlordane trans-Nonachlor	NC
	MW-1-12	oxy-Chlordane trans-Nonachlor	
53837	MW-6-3.5	Chlordane (technical)	

Compound Identification

The results from the two analytical columns were compared for agreement. An elevated RPD value may indicate the presence of an interference resulting in a high bias. When the RPD value was greater than 40% but less than 60% the reported value was estimated (J-3). If the RPD value was greater than 60%, the result was qualified as a tentative identification (NJ-3).

Column confirmation outliers were observed for several analytes for most samples; positive results were either estimated (J-3) or qualified as tentatively identified (NJ-3).

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

Overall Assessment

As determined by this evaluation, the laboratory followed the specified analytical methods. With the exceptions previously noted, accuracy was acceptable as demonstrated by the surrogate, LCS/LCSD, and MS/MSD recoveries and precision was acceptable as demonstrated by the LCS/LCSD and MS/MSD relative percent difference values.

Data were rejected due a very low matrix spike/matrix spike duplicate recovery and because several analytes were not calibrated on the instrument prior to analysis. Completeness for the pesticide analyses is 99.1%.

Data were estimated due to exceeded holding times, surrogate recovery outliers, LCS/LCSD and MS/MSD recovery and precision outliers, and second column confirmation RPD outliers.

Rejected data should not be used for any purpose. All other data as qualified, are acceptable for use.

DATA VALIDATION REPORT
GeoPro – Oseran Properties
PCB Aroclors by Method SW8082A

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by TestAmerica, Tacoma, Washington. Refer to the Sample Index for a complete list of samples.

SDG	Number of Samples	Validation Level
53710	3	EPA Stage 4
53747	5	EPA Stage 4
53787	11	EPA Stage 4
53837	6	EPA Stage 4
53840	5	EPA Stage 4

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table:

2	Sample Receipt, Preservation, and Holding Times	2	Matrix Spike/Matrix Spike Duplicates (MS/MSD)
✓	Initial Calibration (ICAL)	1	Field Duplicates
✓	Continuing Calibration (CCAL)	✓	Reporting Limits
✓	Laboratory Blanks	2	Compound Identification
1	Field Blanks	1	Reported Results
2	Surrogate Compounds	1	Calculation Verification
✓	Laboratory Control Samples (LCS/LCSD)		

✓ Method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.
[1] Quality control results are discussed below, but no data were qualified.
[2] Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample coolers should arrive at the laboratory within the advisory temperature range of less than 6°C. Several coolers were received with temperatures greater than the upper control limit, the highest at 11.8°C. Samples were delivered to the laboratory on the day they were collected. The temperature outliers did not impact data quality; therefore, no action was taken.

With the following exception, all samples were extracted and analyzed within the holding time requirements.

SDG 53840: Sample BG-3-4 was analyzed after the 40 day holding time, at 42 days. No target analytes were detected in this sample; results were estimated (UJ-1).

Field Blanks

There were no field blanks submitted.

Surrogate Compounds

The surrogate compounds decachlorobiphenyl (DCBP) and tetrachloro-m-xylene (TCMX) were added to all samples. When the surrogate %R values indicate a potential low bias, associated results are estimated (J/UJ-13L). Only the associated positive results are estimated (J-13H) if the %R values indicate a potential high bias. If one or both surrogates are outside the control limits the associated results in the sample are qualified. Surrogate spike results from samples diluted at a factor of 20x or greater are not evaluated because the dilution prevents accurate recovery of the spiked analyte. Qualifiers are not applied to QC samples. With the exceptions noted below, all surrogate recovery values were within the laboratory control limits.

SDG 53787: The recovery for TCMX and DCB were less than the lower control limit for Sample MW-1-2. Results and detection limits were estimated (J/UJ-13L).

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Matrix spike/matrix spike duplicate (MS/MSD) samples were analyzed at the appropriate frequency. No action is taken unless both the MS and MSD %R values are outside the control limits for MS/MSD %R outliers. Precision is evaluated using the RPD values calculated between the MS and MSD results. Any RPD values outside the control limits indicate uncertainty in the measured results for the sample. Qualifiers were only issued to the parent sample.

When the MS/MSD %R values indicate a potential low bias, associated results are estimated (J/UJ-8). Only the associated positive results are estimated (J-8) if the %R values indicate a potential high bias. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty.

SDG 53710: Sample MW-10-3.5-A was used for the MS/MSD analyses. The MS recovery for Aroclor 1260 was less than the lower control limit. The MSD recoveries for Aroclor 1016 and Aroclor 1260 were greater than the upper control limit. In addition, the RPD value for Aroclor 1260 was also greater than the control limit. There were no target analytes detected in the parent sample. Reporting limits were not affected by the QC outliers; no action was taken.

SDG 53747: For the batch QC sample, the MSD recovery for Aroclor 1260 was less than the lower control limit. The MSD recovery was acceptable; no action was taken based on the single outlier.

SDG 53787: Sample MW-1-9 was used for the MS/MSD analyses. The MS/MSD recoveries for Aroclor 1260 were greater than the upper control limit. The positive results for Aroclor 1254 and Total PCBs in the parent sample were estimated (J-8H).

SDG 53837: Sample BG-2-24 was used for the MS/MSD analyses. The MS/MSD RPD value for Aroclor 1016 was greater than the control limit. There were no target analytes detected in the parent sample. Reporting limits were not affected by the RPD outlier; no action was taken.

Field Duplicates

There were no field duplicates submitted.

Reporting Limits

SDG 53747: Several samples were analyzed at dilution due to high levels of non-target compounds. Reporting limits were elevated accordingly.

Compound Identification

As required by the method, the laboratory analyzed any samples with positive detections on a confirmatory column. The results from the two analytical columns were compared for agreement. An elevated RPD value may indicate the presence of an interference resulting in a high bias. When the RPD value was greater than 40% but less than 60% the reported value was estimated (J-3). If the RPD value was greater than 60%, the result was qualified as a tentative identification (NJ-3). Confirmation outliers resulting in data qualification are discussed below.

SDGs 53747: The samples the table listed below had analytes with column confirmation outliers. Positive results were either estimated (J-3) or qualified as tentatively identified (NJ-3)

SAMPLE ID	ANALYTE	RPD	ACTION
BG-2-3	PCB-1254	44	J-3
MW-1-22-A	PCB-1254	111	NJ-3

Calculation Verification

Several results were verified by recalculation from the raw data. The following discrepancies were found:

SDG 53710: The reported RPD values for MW-10-3.5-A MS/MSD and 580-202233 LCS/LCSD did not match the re-calculated values. The discrepancy did not cause any changes to the qualified results; no action was taken.

SDGs 53747 and 53787: The reported RPD values for 580-202997 LCS/LCSD did not match the re-calculated values. The discrepancy did cause any changes to the qualified results; no action was taken.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory performed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate, LCS/LCSD, and MS/MSD recoveries and precision was acceptable as demonstrated by the LCS/LCSD and MS/MSD RPD values.

Data were estimated due to exceeded holding times, surrogate recovery outliers, MS/MSD recovery outliers, and second column confirmation RPD outliers.

All data as qualified, are acceptable for use.

DATA VALIDATION REPORT
GeoPro – Oseran Properties
Gasoline Range Organics by Method NWTPH-Gx

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by TestAmerica, Tacoma, Washington. Refer to the SAMPLE INDEX for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
53710	3 Soil	EPA Stage 4
53747	5 Soil	EPA Stage 4
53787	10 Soil	EPA Stage 4
53837	6 Soil	EPA Stage 4
53840	4 Soil	EPA Stage 4

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDGs 53787 and 53837: Samples BG-1-7-A, MW-5-17-A, and MW-2-8-A were flagged "H" by the laboratory to indicate that the samples were analyzed outside of the holding time, however, the samples were analyzed within the holding time and no qualifiers were required.

TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

2	Sample Receipt, Preservation and Holding Times	1	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
✓	Initial Calibration (ICAL)	1	Field Duplicates
✓	Continuing Calibration Verification (CCV)	✓	Reported Results
2	Laboratory Blanks	✓	Compound Identification
1	Field Blanks	✓	Compound Quantitation
✓	Surrogate Compounds	1	Calculation Verification
✓	Laboratory Control Samples (LCS/LCSD)		

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.
1 Quality control results are discussed below, but no data were qualified.
2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation and Holding Times

As stated in validation guidance documents, sample coolers should arrive at the laboratory within the advisory temperature range of less than 6°C. Several coolers were received with temperatures greater than the upper control limit, the highest at 11.8°C. Samples were delivered to the laboratory

on the day they were collected. The temperature outliers did not impact data quality; therefore, no action was taken.

Samples were preserved and analyzed within the holding time requirements, with the exceptions noted below.

SDG 53710: Due to a laboratory error, samples MW-10-3.5 and MW-10-23-A were not preserved within 48 hours as required by method 5035A. The gasoline results for these samples were estimated (UJ-1).

SDG 53747: Samples MW-3-21-A and MW-9-19-A were not analyzed within 14 days as required by the method. The gasoline results for these samples were estimated (J-1).

SDG 53787: Sample MW-1-22-A was not analyzed within the 14 day holding time. The gasoline result for this sample was estimated (UJ-1).

Laboratory Blanks

Laboratory blanks were analyzed at the appropriate frequency. To assess the impact of each blank contaminant on the reported sample results, an action level was established at five times (5x) the concentration detected in the blank. If the concentration in the associated field samples were less than the action level, the results were qualified as not detected (U-7) at the reported concentration. No action was taken if the sample results were greater than the action level or for non-detected results.

SDG 53710: A positive result for gasoline was reported in one method blank. The associated gasoline result in Sample MW-10-1.5 was qualified as not detected (U-7).

SDG 53747: A positive result for gasoline was reported in one method blank. The associated gasoline results in Samples MW-3-1.5, MW-3-4.5, and MW-9-2 were qualified as not detected (U-7).

SDG 53787: A positive result for gasoline was reported in one method blank. The associated gasoline results in Samples BG-1-23, BG-1-3, BG-2-3, MW-1-12, MW-1-2, MW-1-1.25, and MW-5-22-A were qualified as not detected (U-7).

Field Blanks

No field blanks were submitted.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Precision and accuracy were evaluated using the surrogate and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) results.

Field Duplicates

No field duplicates were submitted.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory performed the specified analytical method. Accuracy was acceptable as demonstrated by the surrogate and LCS/LCSD recoveries. Precision was also acceptable as demonstrated by the LCS/LCSD relative percent difference values.

Detection limits were elevated based on method blank contamination. Data were estimated due to exceeded holding times.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
GeoPro – Oseran Properties
Diesel Range Organics by Method NWTPH-Dx

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by TestAmerica, Tacoma, Washington. Refer to the SAMPLE INDEX for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
53710	3 Soil	EPA Stage 4
53747	5 Soil	EPA Stage 4
53787	10 Soil	EPA Stage 4
53837	6 Soil	EPA Stage 4
53840	5 Soil	EPA Stage 4

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

✓	Sample Receipt, Preservation and Holding Times	1	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
✓	Initial Calibration (ICAL)	✓	Laboratory Duplicates
2	Continuing Calibration Verification (CCV)	1	Field Duplicates
2	Laboratory Blanks	✓	Reported Results
1	Field Blanks	2	Compound Identification
✓	Surrogate Compounds	✓	Compound Quantitation
✓	Laboratory Control Samples (LCS/LCSD)	1	Calculation Verification

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.
1 Quality control results are discussed below, but no data were qualified.
2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation and Holding Times

As stated in validation guidance documents, sample coolers should arrive at the laboratory within the advisory temperature range of less than 6°C. Several coolers were received with temperatures greater than the upper control limit, the highest at 11.8°C. Samples were delivered to the laboratory on the day they were collected. The coolers had insufficient time to cool to <6°C. The temperature outliers did not impact data quality; therefore, no action was taken.

Continuing Calibration Verification

The continuing calibration (CCAL) percent difference (%D) values were within the ±15% control limit, with the exception noted below. When the %D values indicate a potential low bias, associated results are estimated (J/UJ-5BL). Only the associated positive results are estimated (J-5BH) if the %D values indicate a potential high bias.

SDG 53747: The %D values for #2 diesel (C10-C24) and motor oil (>C24-C36) in the CCAL analyzed on 10/9/15 at 20:31 were greater than the control limit of 15%. The associated results for these analytes in Sample MW-3-1.5 were estimated (J-5BH).

Laboratory Blanks

There was a positive result for #2 diesel (C10-C24) in the laboratory blank extracted on 10/6/15. An action level was established at 5x the concentration reported in the blank. Positive results in the associated field samples that were less than the action level were qualified as not detected (U-7). No action was taken if the sample result was greater than the action level, or for non-detected results.

SDG	Method Blank	Client ID	Analyte	Action
53837	580-202582/1-A	BG-2-24	#2 Diesel	U-7
		MW-6-3.5		
		MW-6-24.2		
		MW-2-2		
		MW-4-4		
53840		MW-4-24		
		MW-8-4		
		MW-8-24		
		BG-3-22.8		

Field Blanks

No field blanks were submitted.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Precision and accuracy were evaluated using the surrogate, laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and laboratory duplicate results.

Field Duplicates

No field duplicates were submitted.

Compound Identification

SDG 53747: For Sample MW-3-1.5, the chromatograms for #2 diesel and motor oil did not match the typical fuel patterns. The results for these fuel ranges were flagged "Z" by the laboratory. These

"Z" flagged results were estimated (J-2) to indicate they did not fully resemble the pattern of the calibration standard.

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory performed the specified analytical method. Accuracy was acceptable as demonstrated by the surrogate and LCS/LCSD recoveries. Precision was also acceptable as demonstrated by the LCS/LCSD and laboratory duplicate relative percent difference values.

Detection limits were elevated based on laboratory blank contamination. Data were estimated based on chromatograms that did not match the calibration standard and due to CCAL %D outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
GeoPro – Oseran Properties
Metals by Methods SW6020A and SW7471A

This report documents the review of the data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by TestAmerica, Tacoma, Washington. Refer to the SAMPLE INDEX for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
53710	3 Soil	EPA Stage 4
53747	5 Soil	EPA Stage 4
53787	11 Soil	EPA Stage 4
53837	6 Soil	EPA Stage 4
53840	5 Soil	EPA Stage 4

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

A verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

TECHNICAL DATA VALIDATION

This report documents the review of analytical QC requirements as listed in the following table.

1	Sample Receipt, Preservation, and Holding Times	✓	Internal Standards
✓	Initial Calibration	✓	Interference Check Standards
✓	Calibration Verification	2	Serial Dilutions
✓	Reporting Limit Standard	1	Field Duplicates
2	Blanks (Laboratory and Field)	✓	Target Analyte List
✓	Laboratory Control Samples (LCS/LCSD)	✓	Reporting Limits
2	Matrix Spike/Matrix Spike Duplicates (MS/MSD)	2	Reported Results
✓	Laboratory Duplicates	✓	Calculation Verification

✓ *Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.*
1 *Quality control results are discussed below, but no data were qualified.*
2 *Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.*

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample coolers should arrive at the laboratory within the advisory temperature range of less than 6°C. Several coolers were received with temperatures greater than the upper control limit, the highest at 11.8°C. Samples were delivered to the laboratory on the day they were collected. The temperature outliers did not impact data quality; therefore, no action was taken.

Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level was established at five times (5x) the concentration reported in the blank. If a contaminant was reported in an associated field sample and the concentration was less than the action level, the result was qualified as not detected (U). No action was taken if the sample result was greater than the action level, or for non-detected results.

SDG 53837: Antimony was detected in several instrument blanks. After evaluating the associated field samples against the action levels, only the antimony result for Sample MW-6-24.2 was qualified as not detected (U-7).

Matrix Spike/Matrix Spike Duplicate

Matrix spike/matrix spike duplicate samples (MS/MSD) were analyzed at the proper frequency of one per 20 samples or one per batch for soil samples. Where analyte concentrations were less than 4x the spike amount, the percent recovery (%R) and relative percent difference (RPD) values were evaluated. If the percent recovery values indicate a potential low bias, associated results are estimated (J/UJ-8). For %R values less than 30%, indicating an extreme low bias, the results for the post digestion spike (PDS) were also evaluated. If the post spike %R values were acceptable, then associated results were estimated (J/UJ-8). If the %R values indicate a potential high bias, only the associated positive results are estimated (J-8).

Precision is indicated by the relative percent difference (RPD) between the MS and MSD values. RPD values outside the control limits indicate uncertainty in the measured results for the sample and positive results are estimated (J-9).

The following elements were qualified in one or more samples based on %R and/or RPD value outliers. Qualifiers were issued to all samples associated with a QC batch.

SDG 53837: Sample BG-2-24 was analyzed as the matrix spike. The MS/MSD recoveries for barium 62% and 62%, chromium 58% and 59%, and copper 32% and 26% were less than the lower control limit. Associated barium, chromium, and copper results were estimated (J-8L) to indicate a potential low bias.

Serial Dilutions

Where analyte concentrations in the parent sample were greater than the 50x the MDL, the percent difference (%D) was evaluated. If the serial dilution %D value was greater than 10%, the positive results and/or detection limits in the associated samples are estimated (J/UJ-16). With the following exception, serial dilution %D values were within the acceptance limit.

SDG 53837: Sample BG-2-24 was analyzed as the serial dilution sample. The percent difference (%D) values for aluminum 17%, arsenic 11%, chromium 11%, magnesium 16%, nickel 13%, and zinc 13% exceeded the acceptance criteria of 10%. The associated aluminum, arsenic, chromium, magnesium, nickel, and zinc results were estimated (J-16).

Field Duplicates

No field duplicates were submitted.

Reported Results

SDG 53710: The reported lead result for Sample MW-10-1.5 exceeded the linear dynamic range of the instrument. The associated lead result was estimated (J-20).

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. With the exceptions noted previously, accuracy was acceptable as demonstrated by the LCS/LCSD and MS/MSD recoveries and precision was acceptable as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate relative percent difference values.

One detection limit was elevated due instrument blank contamination. Results were estimated based on serial dilution %D outliers, MS/MSD %R outliers, and a linear range exceedance.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
GeoPro - Oseran Properties
Total Organic Carbon by EPA Method SW9060, pH by EPA Method SW9045C, Total Solids by ASTM Method D2216

This report documents the review of the data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by TestAmerica, Tacoma, Washington. Refer to the Sample Index for a complete list of samples.

SDG	Number of Samples	Validation Level
53710	3 Soil	EPA Stage 4
53747	5 Soil	EPA Stage 4
53787	10 Soil	EPA Stage 4
53837	6 Soil	EPA Stage 4
53840	5 Soil	EPA Stage 4

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

A verification of the electronic data deliverable (EDD) results was performed by comparison to the hardcopy laboratory data package. Laboratory QC results were also verified (10%). No errors were found.

The laboratory reported percent solids and percent moisture. Percent moisture is calculated as 100% minus the percent solids value.

TECHNICAL DATA VALIDATION

This report documents the review of analytical QC requirements as listed in the following table.

2	Sample Receipt, Preservation, and Holding Times	✓	Laboratory Duplicates
✓	Initial Calibration	1	Field Duplicates
✓	Calibration Verification	✓	Reporting Limits
✓	Blanks (Laboratory and Field)	2	Reported Results
✓	Laboratory Control Samples	✓	Calculation Verification
✓	Matrix Spikes		

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

[1] Quality control results are discussed below, but no data were qualified.

[2] Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample coolers should arrive at the laboratory within the advisory temperature range of less than 6°C. Several coolers were received with temperatures greater than the upper control limit, the highest at 11.8°C. Samples were delivered to the laboratory on the day they were collected. The temperature outliers did not impact data quality; therefore, no action was taken.

SDGJ53710: Samples MW-12-3.5-A and MW-10-23-A were prepared for pH after the 7 day holding time, at 11 days. The same two samples were also analyzed past the 7 day holding time for percent solids, at 11 days. These results were estimated (J-1).

SDG 53747: Samples MW-3-21-A and MW-9-19-A were prepared for pH after the 7 day holding time, at 10 days. The same two samples were also analyzed past the 7 day holding time for percent solids, at 13 days. These results were estimated (J-1).

SDG 53787: Samples BG1-7-A and MW-5-17-A were prepared for pH after the 7 day holding time, at 9 days. All samples in the SDG were analyzed past the 7 day holding time for percent solids, at 8 days and 9 days. These results were estimated (J-1).

SDG 53837: All samples were prepared for pH after the 7 day holding time at 8 days and 9 days. Samples BG-2-24, MW-2-8-A, MW6-3.5, and MW-6-24.2 were analyzed past the 7 day holding time for percent solids, at 8 days. These results were estimated (J-1).

SDG 53840: All samples were prepared for pH after the 7 day holding time, at 8 days. All pH results were estimated (J-1).

Field Duplicates

No field duplicates were submitted.

Reported Results

Samples were analyzed in duplicate for the total organic carbon analyses. Relative percent difference (RPD) values were calculated for detected analytes where results are greater than the reporting limit (RL). With the exception noted below, all RPD values were less than the 20% control limit.

SDG 53747: The RPD value between the two total organic carbon results reported for Sample MW-9-2 was greater than the acceptance criterion, at 41%. The average value reported was estimated (J-9).

Calculation Verification

Several results were verified by recalculation from the raw data. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the laboratory control sample and matrix spike recoveries. With the exception noted above, precision was acceptable as demonstrated by the laboratory duplicate relative percent difference values.

Data were estimated based on exceeded holding times and an analytical duplicate precision outlier.

All data, as qualified, are acceptable for use.

ECOCHEM
Data Quality

APPENDIX A

DATA QUALIFIER DEFINITIONS
REASON CODES
AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES
Based on National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.

DATA QUALIFIER REASON CODES

Group	Code	Reason for Qualification
Sample Handling	1	Improper Sample Handling or Sample Preservation (i.e., headspace, cooler temperature, pH, summa canister pressure); Exceeded Holding Times
Instrument Performance	24	Instrument Performance (i.e., tune, resolution, retention time window, endrin breakdown, lock-mass)
	5A	Initial Calibration (RF, %RSD, r^2)
	5B	Calibration Verification (CCV, CCAL; RF, %D, %R) Use bias flags (H,L)[1] where appropriate
	5C	Initial Calibration Verification (ICV %D, %R) Use bias flags (H,L)[1] where appropriate
Blank Contamination	6	Field Blank Contamination (Equipment Rinsate, Trip Blank, etc.)
	7	Lab Blank Contamination (i.e., method blank, instrument blank, etc.) Use low bias flag (L)[1] for negative instrument blanks
Precision and Accuracy	8	Matrix Spike (MS and/or MSD) Recoveries Use bias flags (H,L)[1] where appropriate
	9	Precision (all replicates: LCS/LCSD, MS/MSD, Lab Replicate, Field Replicate)
	10	Laboratory Control Sample Recoveries (a.k.a. Blank Spikes) Use bias flags (H,L)[1] where appropriate
	12	Reference Material Use bias flags (H,L)[1] where appropriate
	13	Surrogate Spike Recoveries (a.k.a. labeled compounds, recovery standards) Use bias flags (H,L)[1] where appropriate
Interferences	16	ICP/ICP-MS Serial Dilution Percent Difference
	17	ICP/ICP-MS Interference Check Standard Recovery Use bias flags (H,L)[1] where appropriate
	19	Internal Standard Performance (i.e., area, retention time, recovery)
	22	Elevated Detection Limit due to Interference (i.e., chemical and/or matrix)
	23	Bias from Matrix Interference (i.e. diphenyl ether, PCB/pesticides)
Identification and Quantitation	2	Chromatographic pattern in sample does not match pattern of calibration standard
	3	2nd column confirmation (RPD or %D)
	4	Tentatively Identified Compound (TIC) (associated with NJ only)
	20	Calibration Range or Linear Range Exceeded
	25	Compound Identification (i.e., ion ratio, retention time, relative abundance, etc.)
Miscellaneous	11	A more appropriate result is reported (multiple reported analyses i.e., dilutions, re-extractions, etc. Associated with "R" and "DNR" only)
	14	Other (See DV report for details)
	26	Method QC information not provided

[1] H = high bias indicated
L = low bias indicated

Volatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Based on NFG 1999 & 2008 and SW-846 Method 8260C)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	4°C±2°C Aqueous: HCl to pH < 2 Current SW846 criterion is ≤ 6° C [3]	NFG [1] Method [3]	**If required by project:** J (pos)/UJ (ND) if greater than 6° C	1	Use **PJ** for temp outliers; see **TM20** if pH ≤ 2, reject 2-chloroethyl vinyl ether (R-1) some projects may require methanol preserved soils/seds
Holding Time	**Aqueous:** 14 days preserved 7 Days: unpreserved **Solid:** 14 Days	NFG [1] Method [3]	J (pos)/UJ (ND) if HT exceeded J (pos)/R (ND) if gross exceedance (> 2x HT)	1	Gross exceedance = > 2x HT, as per 1999 NFG
Instrument Performance					
Tuning	BFB Beginning of each 12 hour period Use method or project acceptance criteria	NFG [1] Method [3]	R (pos/ND) all analytes in all samples associated with the tune	24	
Initial Calibration **Sensitivity**	Minimum 5 standards RRF ≥ 0.05 except: RRF ≥ 0.01 poor responders * RRF ≥ 0.005 1,4-dioxane	NFG [1] Method [3]	Use **PJ** to qualify J (pos)/UJ (ND)	5A	**TM-06** EcoChem Policy for the Evaluation and Qualification of GCMS Instrument Performance **PJ** - no action if response is stable (ICAL RSD and CCAL %D acceptable)
Initial Calibration **Stability**	%RSD ≤ 20% except: %RSD ≤ 40% poor responders * %RSD ≤ 50% 1,4-dioxane	NFG [1] Method [3]	J (pos) if %RSD > limit	5A	
Initial Calibration Verification	Second source analyzed immediately after ICAL %R 70% - 130%	Method [3]	J (pos) %R > UCL J (pos)/UJ (ND) %R < LCL	5A (H,L)[4]	QAPP may have overriding accuracy limits.
Continuing Calibration **Sensitivity**	RRF ≥ 0.05 except: RRF ≥ 0.01 poor responders * RRF ≥ 0.005 1,4-dioxane	NFG [1] Method [3]	Use **PJ** to qualify J (pos)/UJ (ND)	5B	see ICAL RRF guidance
Continuing Calibration **Stability**	%D ≤ 25% except: %D ≤ 40% poor responders * %D ≤ 50% 1,4-dioxane	NFG [1] Method [3]	J (pos) - %D > control limit (high bias) J (pos)/UJ (ND) - %D < -control limit (low bias)	5B (H,L)[4]	

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Volatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Based on NFG 1999 & 2008 and SW-846 Method 8260C)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Blank Contamination					
Method Blank (MB)	MB: One per matrix per batch (of ≤ 20 samples) No detected compounds > MDL	NFG [2] Method [3]	U (pos) if result is < 5X or 10X action level	7	10X action level for methylene chloride, acetone, & 2-butanone. 5X for all other target analytes **Hierarchy of blank review:** **#1 - Review MB, qualify as needed** **#2 - Review TB, qualify as needed** **#3 - Review FB, qualify as needed** **Note: Actions as per NFG 1999**
	No TICs present		R (pos) TICs using 10X rule		
Trip Blank (TB)	No detected compounds > MDL	NFG [2] Method [3]	U (pos) if result is < 5X or 10X action level	6	
Field Blank (FB)	No detected compounds > MDL	NFG [2] Method [3]	U (pos) if result is < 5X or 10X action level	6	
Precision and Accuracy					
LCS/LCSD (recovery)	One per matrix per batch (of ≤ 20 samples) LCSD not required by NFG or method Use method acceptance criteria/laboratory limits	Method [3]	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND)%R < 10%	10 (H,L)[4]	No action if only one spike %R is outside criteria when LCSD is analyzed, unless one recovery is <10%. QAPP may have overriding accuracy limits.
LCS/LCSD RPD	If LCSD analyzed RPD < lab limits	Method [3]	J (pos)	9	Qualify all associated samples. QAPP may have overriding precision limits.
Reference Material (RM, SRM, or CRM)	Result ±20% of the 95% confidence interval of the true value for analytes	EcoChem standard policy	J (pos)/UJ (ND) if < LCL J (pos) if > UCL	12 (H,L)[4]	QAPP may have overriding accuracy limits. Some manufacturers may have different RM control limits
Surrogates	Added to all samples Within method/laboratory control limits	NFG [1] Method [3]	J (pos) if %R >UCL J (pos)/UJ (ND) if %R <LCL J (pos)/R (ND) if <10%	13 (H,L)[4]	No action if there are 4+ surrogates and only 1 outlier Qualify all compounds if qualification is required.
Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	NFG [1] Method [3]	J (pos) if > 200% J (pos)/UJ (ND) if < 50% J (pos)/R (ND) if < 25% if RT >30 seconds use **PJ**	19	Qualify compounds quantified using particular internal standard

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Volatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Based on NFG 1999 & 2008 and SW-846 Method 8260C)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Precision and Accuracy (continued)					
MS/MSD (recovery)	One per matrix per batch (of ≤ 20 samples) Use method acceptance criteria/laboratory limits	NFG [1] Method [3]	J (pos) %R > UCL J (pos)/UJ (ND) if both %R < LCL J (pos)/R (ND) if both %R < 10% J (pos)/UJ (ND) if one > UCL & one < LCL, with no bias	8 (H,L)[4]	No action if only one spike %R is outside criteria. No action if parent concentration is >4x the amount spiked. Qualify parent sample only.
MS/MSD (RPD)	One per matrix per batch (of ≤ 20 samples) Use method acceptance criteria/laboratory limits	NFG [1] Method [3]	J (pos) If RPD > control limit	9	Qualify parent sample only
Field Duplicates	**Solids:** RPD < 50% OR difference < 2X RL (for results < 5X RL) **Aqueous:** RPD < 35% OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	J (pos)/UJ (ND) Qualify only parent and field duplicate samples	9	Use project limits if specified
Compound Identification and Quantitation					
Retention Time Relative Ion Intensities	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	NFG [1] Method [3]	U (pos) if identification criteria not met	25	
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NFG [1] Method [3]	NJ TIC R (pos) if common laboratory contaminants	4	Common laboratory contaminants: aldol condensation products, solvent preservatives, and reagent contaminants
Calibration Range	Results greater than highest calibration standard	EcoChem standard policy	Qualify J (pos)	20	If result from dilution analysis is not reported.
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	**TM-04** EcoChem Policy for Rejection/Selection Process for Multiple Results

[1] National Functional Guidelines for Organic Data Review, June, 2008
[2] National Functional Guidelines for Organic Data Review, Oct, 1999
[3] Method SW846 8260C Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
[4] NFG 2013 suggests using "+ / -" to indicate bias; EcoChem has chosen "H" = high bias indicated; "L" = low bias indicated.

(pos): Positive Result
(ND): Non-detect

* "Poor responder" compounds: Acetone, 2-butanone, carbon disulfide, chloroethane, chloromethane, cyclohexane, 1,2-dibromoethane, dichlorodifluoromethane, cis-1,2-dichloroethene, 1,2-dichloropropane, 1,2-dibromo-3-chloropropane, 2-hexanone, isopropylbenzene, methyl acetate, methylene chloride, methylcyclohexane, 4-methyl-2-pentanone, methyl tert-butyl ether, trans-1,2-dichloroethene, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane **criterion is 0.010 RRF;** 1,4-dioxane RRF **criterion is 0.005**.

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Semivolatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Based on NFG 1999 & 2008 and SW-846 Method 8270D)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	4°C±2°C sediment/tissues may require storage at -20°C	NFG (1) Method (3)	**If required by project:** J (pos)/UJ (ND) if greater than 6° C	1	Use **PJ** for temp outliers; see **TM20** Current SW846 criterion is ≤ 6° C (3)
Holding Time	**Extraction Aqueous:** 7 days from collection **Extraction Solid:** 14 days from collection **Analysis (all matrices)**: 40 days from extraction Holding time may be extended to 1 year for frozen sediments/tissues	NFG (1) Method (3)	J (pos)/UJ (ND) if HT exceeded J (pos)/R (ND) if gross exceedance (> 2x HT)	1	Gross exceedance = > 2x HT, as per 1999 NFG
Instrument Performance					
Tuning	DFTPP Beginning of each 12 hour period Use method or project acceptance criteria	NFG (1) Method (3)	R (pos/ND) all analytes in all samples associated with the tune	24	
Initial Calibration **Sensitivity**	RRF ≥ 0.05 except: RRF ≥ 0.01 poor responders *	NFG (1) Method (3)	Use **PJ** to qualify J (pos)/UJ (ND)	5A	**TM-06** EcoChem Policy for the Evaluation and Qualification of GCMS Instrument Performance **PJ** - no action if response is stable (ICAL RSD and CCAL %D acceptable)
Initial Calibration **Stability**	Minimum 5 standards %RSD ≤ 20.0% except: %RSD ≤ 40.0% poor responders * **or** co-efficient of determination (r^2) > 0.99	NFG (1) Method (3)	J (pos) if %RSD > limit **or** r^2 value <0.99	5A	
Initial Calibration Verification Check	Prepared from second source; analyze after each ICAL Percent recovery limits = 70-130%	Method (3)	J (pos) %R > UCL J (pos)/UJ (ND) %R < LCL	5A (H,L)[4]	QAPP may have overriding accuracy limits.

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Semivolatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Based on NFG 1999 & 2008 and SW-846 Method 8270D)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Instrument Performance (continued)					
Continuing Calibration **Sensitivity**	RRF ≥ 0.05 except: RRF ≥ 0.01 poor responders *	NFG [1] Method [3]	Use **PJ** to qualify J (pos)/UJ (ND)	5B	see ICAL RRF guidance
Continuing Calibration **Stability**	Prior to sample analysis and every 12 hours %D ≤ 25% except: %D ≤ 40.0% poor responders *	NFG [1] Method [3]	J (pos) - %D > control limit (high bias) J (pos)/UJ (ND) - %D < -control limit (low bias)	5B (H,L)[4]	
Blank Contamination					
Method Blank (MB)	MB: One per matrix per batch of (of ≤ 20 samples) No detected compounds > MDL	NFG [2] Method [3]	U(pos) if result is < 5X or 10X action level	7	10X action level applies to phthalates only. 5X for all other target analytes **Hierarchy of blank review:** **#1 - Review MB, qualify as needed** **#2 - Review FB , qualify as needed** **Note: Actions as per 1999 NFG**
	No TICs present		R (pos) TICs using 10X rule	7	
Field Blank (FB)	No detected compounds > MDL	NFG [2] Method [3]	U (pos) if result is < 5X or 10X action level	6	
Precision and Accuracy					
LCS/LCSD (recovery)	One per matrix per batch (of ≤ 20 samples) LCSD not required by NFG or method Use method acceptance criteria/laboratory limits	Method [3]	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND)%R < 10%	10 (H,L)[4]	No action if only one spike %R is outside criteria when LCSD is analyzed, unless one recovery is <10%. QAPP may have overriding accuracy limits. Qualify all associated samples.
LCS/LCSD (RPD)	If LCSD analyzed RPD < lab limits	Method [3]	J (pos)	9	Qualify all associated samples. QAPP may have overriding precision limits.

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Semivolatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Based on NFG 1999 & 2008 and SW-846 Method 8270D)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Precision and Accuracy (continued)					
Reference Material (RM, SRM, or CRM)	Result ±20% of the 95% confidence interval of the true value for analytes	EcoChem standard policy	J (pos)/UJ (ND) if < LCL J (pos) if > UCL	12 (H,L)[4]	QAPP may have overriding accuracy limits. Some manufacturers have different RM control limits
MS/MSD (recovery)	One per matrix per batch (of ≤ 20 samples) Use method acceptance criteria/laboratory limits	NFG (1) Method (3)	J (pos) %R > UCL J (pos)/UJ (ND) if both %R < LCL J (pos)/R (ND) if both %R < 10% J (pos)/UJ (ND) if one > UCL & one < LCL, with no bias	8 (H,L)[4]	No action if only one spike %R is outside criteria. No action if parent concentration is >4x the amount spiked. Qualify parent sample only.
MS/MSD (RPD)	One per matrix per batch (of ≤ 20 samples) Use method acceptance criteria/laboratory limits	NFG (1) Method (2)	J (pos) in parent sample if RPD > CL	9	Qualify parent sample only
Surrogates	Minimum of 3 acid & 3 base/neutral (B/N) compounds added to all samples Within method control limits	NFG (1) Method (3)	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND) if %R < 10%	13 (H,L)[4]	Qualify all compounds in associated fraction. Do not qualify if only 1 acid and/or 1 B/N surrogate is out, unless <10%. If 1 surrogate outlier < 10% then J (pos)/R (ND)
Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	NFG (1) Method (3)	J (pos) if > 200% J (pos)/UJ (ND) if < 50% J (pos)/R (ND) if < 25% if RT >30 seconds use **PJ**	19	Qualify compounds quantified using particular internal standard
Field Duplicates	**Solids:** RPD < 50% OR difference < 2X RL (for results < 5X RL) **Aqueous:** RPD < 35% OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	J (pos)/UJ (ND) Qualify only parent and field duplicate samples	9	Use project limits if specified

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Semivolatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Based on NFG 1999 & 2008 and SW-846 Method 8270D)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Compound Identification and Quantitation and Calculation					
Retention times and relative ion intensities	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	NFG [(1)] Method [(3)]	U (pos) if identification criteria not met	25	
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NFG [(1)] Method [(3)]	NJ the TIC unless: R (pos) common laboratory contaminants	4	
Calibration Range	Results greater than highest calibration standard	EcoChem standard policy	Qualify J (pos)	20	If result from dilution analysis is not reported.
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	**TM-04** EcoChem Policy for Rejection/Selection Process for Multiple Results

[1] National Functional Guidelines for Organic Data Review, June, 2008
[2] National Functional Guidelines for Organic Data Review, October, 1999
[3] Method SW846 8270D Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS), Revision 4, February 2007.
[4] NFG 2013 suggests using "+ / -" to indicate bias; EcoChem has chosen "H" = high bias indicated; "L" = low bias indicated.

(pos): Positive Result(s)
(ND): Non-detects

* "Poor responder" compounds: acetophenone, atrazine, benzaldehyde, 1,1'-biphenyl, bis(2-ethylhexyl)phthalate, butylbenzylphthalate, caprolactam, carbazole, 4-chloroaniline, diethylphthalate, di-n-butylphthalate, 3-3'-dichlorobenzidine, dimethylphthalate, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, di-n-octylphthalate, hexachlorobutadiene, hexachlorocyclopentadiene, 2-nitroaniline, 3-nitroaniline, 4-nitroaniline, 4-nitrophenol, N-nitrosodiphenylamine, 2,2'-oxybis-(1-chloropropane), 1,2,4,5-tetrachlorobenzene use a 0.010 RRF criterion.

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Pesticides by GC
(Based on Organic NFG 1999 & 2008 and SW-846 Method 8081B)

QC Element	Acceptance Criteria (NFG)	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	4°C ± 2°C Tissue/sediments (may be frozen -20°C)	NFG (2) Method (3)	J (pos)/UJ (ND) if greater than 6° C	1	Use Professional Judgment (PJ) to qualify for temperature outlier. Current SW846 criterion is ≤ 6° C(3)
Holding Time	*Extraction Aqueous:* 7 days from collection *Extraction Solid:* 14 days from collection *Exraction Tissue/Sediment (frozen):* 1 year *Analysis (all matrices):* 40 days from extraction	NFG (2) Method (3)	J (pos)/UJ (ND) if ext/analyzed > HT J (pos)/R (ND) if gross exceedance (> 2x HT)	1	Gross exceedance > 2x HT, as per NFG 1999
Instrument Performance					
Resolution Check	Beginning of ICAL sequence Within RTW and resolution > 60%	NFG (2)	NJ (pos)/R (ND) results	14	CLP criterion; might not be submitted with SW846 data package
Retention Times	Surrogates: TCMX (± 0.05); DCB (± 0.10) Target analytes: within RTW	NFG (2) Method (3)	NJ (pos)/R (ND) results for analytes with RT shifts	24	Use PJ based on examination of raw data
Breakdown	DDT Breakdown: ≤ 20% Endrin Breakdown: ≤ 20% Combined Breakdown: ≤ 30% Compounds within RTW	NFG (2) Method (3)	If 4,4'-DDT is detected: J (pos) 4,4'-DDT, 4,4'-DDD and 4,4'-DDE If 4,4'-DDT is ND and either 4,4'-DDD or 4,4'-DDE are detected: R (ND) 4,4'-DDT, NJ (pos) DDD and DDE If Endrin is detected: J (pos) Endrin, Endrin Aldehyde and Endrin Ketone If Endrin is ND and either EA or EK are detected: R (ND) Endrin, NJ (pos) EA and EK	5A	Method 8081B breakdown criterion: ≤ 15%. For combined breakdown outliers, apply qualifiers considering the degree of individual breakdown.

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Pesticides by GC
(Based on Organic NFG 1999 & 2008 and SW-846 Method 8081B)

QC Element	Acceptance Criteria (NFG)	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Instrument Performance (continued)					
Initial Calibration	Single Component Compounds: RSD ≤ 20% alpha-BHC and delta-BHC: RSD ≤ 25% toxaphene and surrogates: RSD ≤ 30% **or** correlation coefficient (r-value) ≥ 0.995 OR Minimum 6-point with coefficient of determination (r^2-value) ≥ 0.99	NFG (2) Method (4)	J (pos) if %RSD greater than control limit **or** r-value < 0.995 **or** r^2-value < 0.99	5A	Refer to TM-01 for additional information. Use bias flags (H,L) (6) where appropriate
Initial Calibration Verification (ICV)	No NFG criteria Project specific	Project QAPP	J (pos) if > UCL J (pos)/UJ (ND) if < LCL	5B	Use bias flags (H,L) (6) where appropriate
Continuing Calibration	%D ± 20% Analyzed prior to each 12 hour shift	Method (3)	If > 20% (high bias): J (pos) If <20% (low bias: J (pos)/UJ (ND)	5B	Refer to TM-01 for additional information. Use bias flags (H,L)(6) where appropriate
Blank Contamination					
Method Blank (MB)	One per matrix per batch (of ≤ 20 samples) No detected compounds > RL	NFG (1) Method (3)	U (pos) if result is less than appropriate 5X action level.	7	**Hierarchy of blank review:** #1 - Review MB and IB, qualify as needed #2 - Review FB , qualify as needed **Note: Actions as per NFG 1999** Note: IB not required by method
Field Blank (FB)	FB: frequency as per QAPP No detected compounds > RL	NFG (1) Method (3)	U (pos) if result is less than appropriate 5X action level.	6	
Instrument Blanks (IB)	Analyzed at the beginning and end of every 12 hour sequence No analyte > CRQL	NFG (1)	U (pos) if result is less than appropriate 5X action level.	7	

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Pesticides by GC
(Based on Organic NFG 1999 & 2008 and SW-846 Method 8081B)

QC Element	Acceptance Criteria (NFG)	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Precision and Accuracy					
MS/MSD (recovery)	One set per matrix per batch (of ≤ 20 samples) Method or project acceptance limits	NFG (2) Method (3)	Qualify parent only unless other QC indicates systematic problems. J (pos) if both %R > upper control limit (UCL) J (pos)/UJ (ND) if both %R < lower control limit (LCL) J (pos)/R (ND) if both %R < 10%	8	No action if only one spike %R is outside criteria No action if native analyte conc. > 5x the amount spiked Use bias flags (H,L) (6) where appropriate
MS/MSD (RPD)	One set per matrix per batch (of ≤ 20 samples) Method or project acceptance limits	NFG (2) Method (3)	Qualify parent only unless other QC indicates systematic problems. J (pos) if RPD > control limit	9	No action if parent is ND
LCS	One per lab batch (of ≤ 20 samples) Method or project acceptance limits	NFG (2)	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND) if %R < 10%	10	Qualify all associated samples. Use bias flags (H,L) (6) where appropriate
LCS/LCSD (RPD)	if analyzed use MS/MSD RPD criteria	NFG (2)	J (pos) assoc. compound in all samples	9	LCSD not required by method or NFG
Surrogates	TCMX and DCBP added to every sample %R = 30% - 150% **or** project limits	NFG (2) Method (3)	J (pos) if either %R > UCL J (pos)/UJ (ND) if either %R < LCL J (pos)/R (ND) if either %R < 10%	13	If %R < 10% (dilution is a factor), use PJ Use bias flags (H,L) (6) where appropriate
Internal Standards (if used)	Acceptable Range: IS area = 50% to 200% of CCAL area RT within 30 seconds of CC RT	Method (3)	J (pos) if area > 200% J (pos)/UJ (ND) if area < 50% J (pos)/R (ND) if area < 25% RT > 30 seconds, narrate	19	

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Pesticides by GC
(Based on Organic NFG 1999 & 2008 and SW-846 Method 8081B)

QC Element	Acceptance Criteria (NFG)	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Precision and Accuracy (continued)					
Field Duplicates	**Solids:** RPD < 50% **or** difference < 2X RL (for results < 5X RL) **Aqueous:** RPD < 35% **or** difference < 1X RL (for results < 5X RL)	EcoChem standard practice	J (pos)/UJ (ND) Qualify only parent and field duplicate samples	9	Use project limits if specified
Compound Identification/Quantification					
Quantitation/ Identification	Between two columns: RPD < 40% or %D < 25% Within Retention Time Windows on both columns.	NFG [2] Method [3]	J (pos) if RPD = 40% - 60% (25% - 60% for %D) NJ (pos) if > 60% R (pos) if RTW criterion not met	3	See TM-08 for additional info
Calibration Range	On-column concentration < high calibration standard	NFG [2] Method [3]	J (pos) if conc > high standard and sample was not diluted	20	
Dilutions Re-extractions and/or Reanalyses	Report only one result per analyte	Standard reporting policy	Use "DNR" to flag results that will not be reported.	11	TM-04 for additional info
Sample Clean-up					
GPC/Sulfur/ Florisil	GPC or Florisil cleanup stndards 80% - 120%	NFG [2]	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND) if %R < 10%	14	Cleanups are optional under SW846 Use bias flags (H,L) [6] where appropriate

[1] National Functional Guidelines for Organic Data Review, October 1999
[2] National Functional Guidelines for Organic Data Review, June, 2008
[3] Organochlorine Pesticides by Gas Chromatography USEPA Method SW846 8081B, Feb 2007, Rev. 2
[4] SW846, Chapter 4, Organic Analytes
[5] Determinative Chromatographic Separations , Method 8000C , March 2003, Rev.3
[6] NFG 2013 suggests using "+ / -" to indicate bias; EcoChem has chosen "H" = high bias indicated; "L" = low bias indicated.

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PCB Aroclors by GC
(Based on Organic NFG 2008 and SW-846 Method 8082A)

QC Element	Acceptance Criteria (NFG)	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample					
Cooler/Storage Temperature Preservation	4°C ± 2°C Tissue/sediments (may be frozen -20°C)	NFG (1) Method (2)	**If required by project:** J (pos)/UJ (ND) if greater than 6° C	1	Use Professional Judgment (PJ) to qualify for temperature outlier. Current SW846 criterion is ≤ 6° C (3)
Holding Time	**Extraction Aqueous:** 7 days from collection **Extraction Solid:** 14 days from collection **Exraction Tissue/Sediment (frozen):** 1 year **Analysis (all matrices)**: 40 days from extraction	NFG (1) Method (2)	**If required by project:** J (pos)/UJ (ND) if ext/analyzed > HT J (pos)/R (ND) if gross exceedance (> 2x HT)	1	Use PJ to qualify for holding time outlier. Current SW846 does not have an extraction holding time limit.(3) Gross exceedance > 2x HT, as per NFG 1999
Instrument Performance					
Retention Times	Surrogates: TCMX (± 0.05); DCB (± 0.10) Aroclors (± 0.07)	NFG (1)	NJ (pos)/R (ND) results for analytes with RT shifts	24	
Initial Calibration	Minimum 5 point with RSD ≤ 20% OR correlation coefficient (r-value) ≥ 0.995 OR Minimum 6-point with co-efficient of determination (r2-value) ≥ 0.99	NFG (1) Method (4)	J (pos) if %RSD greater than 20% OR r-value < 0.995 OR r^2-value < 0.99	5A	Refer to TM-01 for additional information. Use bias flags (H,L)(5) where appropriate
Initial Calibration Verification (ICV)	No NFG criteria. Project specific.	Project	J (pos) if > UCL J (pos)/UJ (ND) if < LCL	5B	Use bias flags (H,L) where appropriate
Continuing Calibration (Prior to each 12 hr. shift)	%D ± 20%	Method (2)	If > 20% (high bias): J (pos) If <20% (low bias: J (pos)/UJ (ND)	5B	Refer to TM-01 for additional information. Use bias flags (H,L) where appropriate
Blank Contamination					
Method Blank (MB)	MB: One per matrix per batch of (of ≤ 20 samples) No detected compounds > RL	NFG (1) Method (2)	U (pos) if result is less than appropriate 5X action level.	7	**Hierarchy of blank review:** **#1 - Review MB and IB, qualify as needed** **#2 - Review FB , qualify as needed** Note: Actions as per NFG 1999 Note: IB not required by method
Field Blank (FB)	FB: frequency as per QAPP No detected compounds > RL	NFG (1) Method (2)	U (pos) if result is less than appropriate 5X action level.	6	
Instrument Blanks (IB)	Analyzed at the beginning and end of every 12 hour sequence No analyte > CRQL	NFG (1)	U (pos) if result is less than appropriate 5X action level.	7	

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PCB Aroclors by GC
(Based on Organic NFG 2008 and SW-846 Method 8082A)

QC Element	Acceptance Criteria (NFG)	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Precision and Accuracy					
MS/MSD (recovery)	One set per matrix per batch (of ≤ 20 samples) AR1016 and AR1260: %R = 29% - 135%, or project limits	NFG (1) Method (2)	Qualify parent only unless other QC indicates systematic problems. J (pos) if both %R > upper control limit (UCL) J (pos)/UJ (ND) if both %R < lower control limit (LCL) J (pos)/R (ND) if both %R < 10%	8	No action if only one spike %R is outside criteria. No action if native analyte conc. > 5x the amount spiked. Use bias flags (H,L) where appropriate. Actions apply to all Aroclors in parent sample.
MS/MSD (RPD)	One set per matrix per batch (of ≤ 20 samples) AR1016: RPD < 15%, AR1260: RPD < 20% or project limits	NFG (1) Method (2)	Qualify parent only unless other QC indicates systematic problems. J (pos) if RPD > control limit	9	No action if parent is ND.
LCS	One per lab batch (of ≤ 20 samples) AR1016 and AR1260: %R = 50% - 150%, or project limits	NFG (1)	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND) if %R < 10%	10	Use bias flags (H,L) where appropriate. Actions apply to all Aroclors in associated samples.
LCS/LCSD (RPD)	if analyzed use MS/MSD RPD criteria	NFG (1)	J (pos) assoc. compound in all samples	9	LCSD not required by method or NFG
Precision and Accuracy					
Surrogates	TCMX and DCBP added to every sample %R = 30% - 150% or project limits	NFG (1) Method (2)	J (pos) if either %R > UCL J (pos)/UJ (ND) if either %R < LCL J (pos)/R (ND) if either %R < 10%	13	If %R < 10% (sample dilution is a factor), use PJ Use bias flags (H,L) where appropriate
Internal Standards (if used)	Acceptable Range: IS area = 50% to 200% of CCAL area RT within 30 seconds of CC RT	Method (2)	J (pos) if area > 200% J (pos)/UJ (ND) if area < 50% J (pos)/R (ND) if area < 25% RT > 30 seconds, narrate	19	
Field Duplicates	**Solids:** RPD < 50% OR difference < 2X RL (for results < 5X RL) **Aqueous:** RPD < 35% OR difference < 1X RL (for results < 5X RL)	EcoChem	J (pos)/UJ (ND) Qualify only parent and field duplicate samples	9	use project limits if specified

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PCB Aroclors by GC
(Based on Organic NFG 2008 and SW-846 Method 8082A)

QC Element	Acceptance Criteria (NFG)	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Compound Identification/Quantification					
Quantitation/ Identification	Between two columns: RPD < 40% or %D < 25% Within Retention Time Windows on both columns.	NFG [1] Method [2]	J (pos) if RPD = 40% - 60% (25% - 60% for %D) NJ (pos) if > 60% R (pos) if RTW criterion not met	3	See TM-08 for additional info.
Calibration Range	on column concentration < high calibration standard	NFG [1] Method [2]	J (pos) if conc > high standard and sample was not diluted	20	
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	Standard reporting policy	Use "DNR" to flag results that will not be reported.	11	TM-04 Rev. 1 for additional info.
Sample Clean-up					
GPC/Sulfur/ Florisil/Acid	No criteria - cleanups are optional	NFG [1] Method [2]	Use Professional Judgment	14	special cleanups may be required for project cleanup standards may be associated with GPC/florisil cleanups

[1] National Functional Guidelines for Organic Data Review, June, 2008
[2] Polychlorinated Biphenyls (PCBs) by Gas Chromatography USEPA Method SW846 8082A, Feb 2007, Rev. 1
[3] SW846, Chapter 4, Organic Analytes
[4] Determinative Chromatographic Separations , Method 8000C , March 2003, Rev.3
[5] "H" = high bias indicated; "L" = low bias indicated

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EcoChem Validation Guidelines for Total Petroleum Hydrocarbons-Gasoline Range

(Based on EPA National Functional Guidelines as applied to criteria in NWTPH-Gx, June 1997, Wa DOE & Oregon DEQ)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature & Preservation	4°C±2°C Water: HCl to pH < 2	J(+)/UJ(-) if greater than 6 deg. C	1
Holding Time	Waters: 14 days preserved 7 days unpreserved Solids: 14 Days	J(+)/UJ(-) if hold times exceeded J(+)/R(-) if exceeded > 3X (EcoChem PJ)	1
Initial Calibration	5 calibration points (All within 15% of true value) Linear Regression: $R^2 \geq 0.990$ If used, RSD of response factors ≤20%	Narrate if fewer than 5 calibration levels or if %R >15% J(+)/UJ(-) if R^2 <0.990 J(+)/UJ(-) if %RSD > 20%	5A
Mid-range Calibration Check Std.	Analyzed before and after each analysis shift & every 20 samples. Recovery range 80% to 120%	Narrate if frequency not met. J(+)/UJ(-) if %R < 80% J(+) if %R >120%	5B
Method Blank	At least one per batch (≤10 samples) No results >RL	U (at the RL) if sample result is < RL & < 5X blank result.	7
		U (at reported sample value) if sample result is ≥ RL and < 5X blank result	7
Trip Blank (if required by project)	No results >RL	Action is same as method blank for positive results remaining in trip blank after method blank qualifiers are assigned.	18
Field Blanks (if required by project)	No results > RL	Action is same as method blank for positive results remaining in field blank after method and trip blank qualifiers are assigned.	6
MS samples (accuracy) (if required by project)	%R within lab control limits	Qualify parent only, unless other QC indicates systematic problems. J(+) if both %R > upper control limit (UCL) J(+)/UJ(-) if both %R < lower control limit (LCL) No action if parent conc. >5X the amount spiked. Use PJ if only one %R outlier	8
Precision: MS/MSD or LCS/LCSD or sample/dup	At least one set per batch (≤10 samples) RPD ≤ lab control limit	J(+) if RPD > lab control limits	9

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EcoChem Validation Guidelines for Total Petroleum Hydrocarbons-Gasoline Range

(Based on EPA National Functional Guidelines as applied to criteria in NWTPH-Gx, June 1997, Wa DOE & Oregon DEQ)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
LCS (not required by method)	%R within lab control limits	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL J(+)/R(-) if any %R <10% (EcoChem PJ)	10
Surrogates	Bromofluorobenzene and/or 1,4-difluorobenzene added to all samples (inc. QC samples). %R = 50-150%	J(+)/UJ(-) if %R < LCL J(+) if %R >UCL J(+)/R(-) if any %R <10% No action if 2 or more surrogates are used, and only one is outside control limits. (EcoChem PJ)	13
Pattern Identification	Compare sample chromatogram to standard chromatogram to ensure range and pattern are reasonable match. Laboratory may flag results which have poor match.	J(+)	2
Field Duplicates	Use project control limits, if stated in QAPP EcoChem default: water: RPD < 35% solids: RPD < 50%	Narrate outliers If required by project, qualify with J(+)/UJ(-)	9
Two analyses for one sample (e.g., dilution)	Report only one result per analyte	"DNR" (or client requested qualifier) all results that should not be reported. (See TM-04)	11

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EcoChem Validation Guidelines for Total Petroleum Hydrocarbons-Diesel & Residual Range

(Based on EPA National Functional Guidelines as applied to criteria in NWTPH-Dx, June 1997, Wa DOE & Oregon DEQ)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature & Preservation	4°C±2°C Water: HCl to pH < 2	J(+)/UJ(-) if greater than 6 deg. C	1
Holding Time	Ext. Waters: 14 days preserved 7 days unpreserved Ext. Solids: 14 Days Analysis: 40 days from extraction	J(+)/UJ(-) if hold times exceeded J(+)/R(-) if exceeded > 3X (EcoChem PJ)	1
Initial Calibration	5 calibration points (All within 15% of true value) Linear Regression: $R^2 \geq 0.990$ If used, RSD of response factors ≤20%	Narrate if fewer than 5 calibration levels or if %R >15% J(+)/UJ(-) if R^2 <0.990 J(+)/UJ(-) if %RSD > 20%	5A
Mid-range Calibration Check Std.	Analyzed before and after each analysis shift & every 20 samples. Recovery range 85% to 115%	Narrate if frequency not met. J(+)/UJ(-) if %R < 85% J(+) if %R >115%	5B
Method Blank	At least one per batch (≤20 samples) No results >RL	U (at the RL) if sample result is < RL & < 5X blank result.	7
		U (at reported sample value) if sample result is ≥ RL and < 5X blank result	7
Field Blanks (if required by project)	No results > RL	Action is same as method blank for positive results remaining in the field blank after method blank qualifiers are assigned.	6
MS samples (accuracy) (if required by project)	%R within lab control limits	Qualify parent only, unless other QC indicates systematic problems. J(+) if both %R > upper control limit (UCL) J(+)/UJ(-) if both %R < lower control limit (LCL) No action if parent conc. >5X the amount spiked. Use PJ if only one %R outlier	8
Precision: MS/MSD or LCS/LCSD or sample/dup	At least one set per batch (≤10 samples) RPD ≤ lab control limit	J(+) if RPD > lab control limits	9
LCS (not required by method)	%R within lab control limits	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL J(+)/R(-) if any %R <10% (EcoChem PJ)	10

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EcoChem Validation Guidelines for Total Petroleum Hydrocarbons-Diesel & Residual Range

(Based on EPA National Functional Guidelines as applied to criteria in NWTPH-Dx, June 1997, Wa DOE & Oregon DEQ)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Surrogates	2-fluorobiphenyl, p-terphenyl, o-terphenyl, and/or pentacosane added to all samples (inc. QC samples). %R = 50-150%	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL J(+)/R(-) if any %R <10% No action if 2 or more surrogates are used, and only one is outside control limits. (EcoChem PJ)	13
Pattern Identification	Compare sample chromatogram to standard chromatogram to ensure range and pattern are reasonable match. Laboratory may flag results which have poor match.	J(+)	2
Field Duplicates	Use project control limits, if stated in QAPP EcoChem default: water: RPD < 35% solids: RPD < 50%	Narrate (Use Professional Judgement to qualify)	9
Two analyses for one sample (dilution)	Report only one result per analyte	"DNR" (or client requested qualifier) all results that should not be reported. (See TM-04)	11

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Metals by ICP-MS
(Based on Inorganic NFG 2010 and SW-846 6020A)

QC Element	EcoChem Acceptance Criteria	Source of Criteria	EcoChem Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler / Storage Temperature Preservation	**Solid:** Cooler temperature 4°C±2°C **Aqueous:** Nitric Acid to pH < 2 **Dissolved Metals:** 0.45 µm filter, preserve to pH < 2 after filtration	NFG (1) Method (2)	Cooler Temps: **If required by project** J (pos)/UJ (ND) if greater than 6° C Aqueous: J (pos)/UJ (ND) if pH > 2	1	Use **PJ** to qualify for temperature outlier. Current SW846 criterion is ≤ 6° C (4) No quals for pH if samples preserved by lab immediately upon receipt and within 1 day of collection.
Holding Time	All matrices: 180 days from date sampled Frozen soils, sediments, tissues (-20°C) - HT extended to 1 year	NFG (1) Method (2) EcoChem standard policy	J (pos)/UJ (ND) if holding time exceeded	1	
Instrument Performance					
Tune	Analyzed prior to ICAL tunignsolution analyzed 5 times with Std. Dev. ≤ 5% Mass calibration < 0.1 amu difference from target mass Resolution < 0.9 amu @ 10% peak height	NFG (1) Method (2)	J(pos)/UJ(ND) if tune criteria not met	5A	Use **PJ** to evaluate tune. Alternate Resolution critteria may apply based on instrument specs (i.e <0.75 amu at 5% peak height)
Initial Calibration (ICAL)	Based on instrument requirements, blank + 1 standard minimum requirement for calibration If more than 1 standard used, r ≥ 0.995	NFG (1) Method (2)	J (pos)/UJ (ND) if r < 0.995	5A	
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ± 10% of true value	NFG (1) Method (2)	R (pos/ND) if %R < 75% J (pos)/UJ (ND) if %R 75% - 89% J (pos) if %R >111%	5A (H,L)[3]	Qualify all samples in run
Reporting Limit (RL) Standard Low Level ICV/CCV	concentration at RL %R = 70%-130%	Method (2)	J (pos) < 2x RL / R (ND) if %R <50% J (pos) < 2x RL / UJ (ND) if %R 50 - 69% J (pos) < 2x RL if %R > 130%	5A (H,L)[3]	Qualify all samples in run

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Metals by ICP-MS
(Based on Inorganic NFG 2010 and SW-846 6020A)

QC Element	EcoChem Acceptance Criteria	Source of Criteria	EcoChem Action for Non-Conformance	Reason Code	Discussion and Comments
Instrument Performance cont'd					
Continuing Calibration Verification (CCV)	Immediately following ICV/ICB, then every two hours or ten samples, and at end of run. %R within ± 10% of true value	NFG [1] Method [2]	R (pos/ND) if %R < 75% J (pos)/UJ (ND) if %R 75% - 89% J (pos) if %R >111%	5B (H,L)[3]	Qualify samples bracketed by CCV outliers
Interference Check Samples (ICSA / ICSAB)	ICSAB %R 80% - 120% for all spiked elements | ICSA | < MDL for all unspiked elements	NFG [1] Method [2]	For samples with Al, Ca, Fe, Mg > ICS levels: **ICSAB**: J(pos)/R (ND) if %R < 50% J (pos)/UJ (ND) if %R = 50% - 79% J (pos) if %R > 120% **ICSA:** J (pos)< 2x ICSA/UJ (ND) for ICSA <Neg MDL J (pos) < 2x ICSA for ICSA > MDL	17 (H,L)[3]	Use **PJ** and molecular interferences to evaluate ICSA to determine if bias is present. Refer to **TM-14** for additional information.
Blank Contamination					
Method Blank (MB)	One per matrix per batch of (of ≤ 20 samples) Blank conc < MDL	NFG [1] Method [2]	U (pos) if result is < 5X method blank concentration	7	Refer to **TM-02** for additional information. Blank Evaluation based on NFG 1994
Instrument Blanks (ICB/CCB)	After each ICV & CCV | blank concentration | < MDL	NFG [1] Method [2]	Action level is 5x absolute value of blank conc. For positive blanks: U (pos) results < action level For negative blanks: J (pos)/UJ (ND) results < action level	Pos Blks: 7 Neg Blks: 7L[3]	Use blanks bracketing samples for Qualification Refer to **TM-02** for additional information. **Hierarchy of blank review: #1 - Review MB, quaify as needed #2 - Review IB , qualify as needed #3 - Review FB , qualify as needed**
Field Blank (FB)	Blank conc < MDL	EcoChem standard policy	U (pos) if result is < 5x action level, as per analyte.	6	Qualify in associated field samples only. Refer to **TM-02** for additional information.

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Metals by ICP-MS
(Based on Inorganic NFG 2010 and SW-846 6020A)

QC Element	EcoChem Acceptance Criteria	Source of Criteria	EcoChem Action for Non-Conformance	Reason Code	Discussion and Comments
Precision and Accuracy					
Internal Standards (IS)	Added to all samples. All analytes must be associated with an internal standard 60-125% of cal blank IS	NFG [1] Method [2]	J(pos)/UJ(ND) all analytes associated with IS outlier	19	6020A criteria - IS >70% of ICAL std
LCS (recovery)	One per matrix per batch (of ≤ 20 samples); LCSD not required %R between 80-120%	Method [2]	J (pos)/R (ND) if %R <50% J (pos)/UJ (ND) if %R 50% - 79% J (pos) if %R > 120%	10 (H,L)[3]	Qualify all samples in batch QAPP may have overriding accuracy limits. NFG Limits 70% -130%
LCS/LCSD (RPD)	LCSD not required, if analyzed: RPD ≤ 20%	Method [2]	J (pos)/UJ (ND) if RPD > 20%	9	Qualify all samples in batch QAPP may have overriding precision limits.
MS/MSD (recovery)	One per matrix per batch (of ≤ 20 samples); MSD not required %R between 75-125%	NFG [1] Method [2]	J (pos) if %R > 125% J (pos)/UJ (ND) if %R <75% J (pos)/R (ND) if %R < 30%, unless post digestion spike analyzed, J (pos)/UJ (ND) if post digestion spike %R OK	8 (H,L)[3]	No action if only one spike %R is outside criteria. NA if parent concentration >4x the amount spiked. Qualify all samples in batch. QAPP may have overriding accuracy limits.
Post Digestion Spikes	If MS is outside 75-125%, post-spike should be analyzed %R 80%-120% (method); 75%-125% (NFG)	NFG [1] Method [2]	Only used to support MS qualification decisions	NA	No qualifiers assigned based solely on this element.
MS/MSD (RPD)	MSD not required, if analyzed: RPD ≤ 20%	NFG [1] Method [2]	J (pos)/UJ (ND) if RPD > 20%	9	QAPP may have overriding precision limits.
Laboratory Duplicate	One per matrix per batch (of ≤ 20 samples) RPD ≤ 20% for results ≥ 5x RL Solids: difference < 2X RL for results < 5X RL Aqueous: difference < 1X RL for results < 5X RL	NFG [1] Method [2]	J (pos)/UJ (ND) if RPD > 20% or if difference > control limit	9	Qualify all samples in batch. QAPP may have overriding precision limits.

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Metals by ICP-MS
(Based on Inorganic NFG 2010 and SW-846 6020A)

QC Element	EcoChem Acceptance Criteria	Source of Criteria	EcoChem Action for Non-Conformance	Reason Code	Discussion and Comments
Precision and Accuracy cont'd					
Reference Material (RM, SRM, or CRM)	Result ±20% of the 95% confidence interval of the true value for analytes	EcoChem standard policy	J (pos)/UJ (ND) if < LCL J (pos) if > UCL	12 (H,L)[3]	QAPP may have overriding accuracy limits. Some manufacturers may have different RM control limits
Serial Dilution	Analyze one sample per matrix at a 5x dilution %D <10% for original sample conc. > 50x MDL	NFG [(1)]	J(pos)/UJ(ND) if %D > 10% and native sample concentration > 50x MDL	16	Note serial dilutions for soil are reported in ug/L, but the MDL is in mg/kg. The units need to be adjusted. Qualify all samples in batch.
Field Duplicate	Solids: RPD <50% OR difference < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	Narrate and qualify if required by project **(EcoChem PJ)** Qualify only field duplicate samples J(pos)/UJ(ND)	9	QAPP may have overriding precision limits.
Compound Quantitation					
Total and Dissolved Comparison	Total > Dissolved	EcoChem standard policy	J (pos)/UJ (ND) if Dissolved > Total and results fall outside of standard duplicate precision criteria	14	
Calibration Range	Results < instrument linear range	NFG [(1)] Method [(2)]	if result exceeds linear range and sample was not diluted J (pos)	20	
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	**TM-04** EcoChem Policy for Rejection/Selection Process for Multiple Results

[1] National Functional Guidelines for Inorganic Superfund Data Review, January 2010.
[2] Method SW846 6020A Inductively Coupled Plasma-Mass Spectrometry (ICP-MS), Revision 1, February 2007.
[3] "H" = high bias indicated; "L" = low bias indicated
[4] SW846, Chapter 3, Inorganic Analytes

(pos): Positive Result
(ND): Not detected

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Mercury by CVAA
(Based on Inorganic NFG 2010 and SW846 7470A & 7471B)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler / Storage Temperature Preservation	**Solid:** Cooler temperature 4°C±2°C **Aqueous:** Nitric Acid to pH < 2 **Dissolved Metals:** 0.45 µm filter, preserve to pH < 2 after filtration	NFG (1) Method (2)	Cooler Temps: **If required by project** J (pos)/UJ (ND) if greater than 6° C Aqueous: J (pos)/UJ (ND) if pH > 2	1	Use **PJ** to qualify for temperature outlier. Current SW846 criterion is ≤ 6° C (4) No quals for pH if samples preserved by lab immediately upon receipt and within 1 day of collection.
Holding Time	28 days from date sampled Frozen solids and tissues HT extended to 6 months	NFG (1) Method (2) EcoChem standard policy	J (pos)/UJ (ND) if HT exceeded	1	
Instrument Performance					
Initial Calibration (ICAL)	Daily Calibration Blank + 5 standards, one ≤ RL Correlation coefficient (r) ≥ 0.995	NFG (1) Method (2)	J (pos)/UJ (ND) if r < 0.995	5A (H,L)[3]	
Initial Calibration Verification (ICV)	Independent source analyzed immediately after ICAL %R within ± 15% of true value	NFG (1) Method (2)	R(pos/ND) if %R <70% J(pos)/UJ(ND) if %R = 70-84% J(pos) if %R = > 116%	5A (H,L)[3]	Qualify all samples in run
Reporting Limit (RL) Standard	Conc = RL %R = 70-130%	Method (2)	J (pos) < 2x RL / R (ND) if %R <50% J (pos) < 2x RL / UJ (ND) if %R 50 - 69% J (pos) < 2x RL if %R > 130%	5A (H,L)[3]	Qualify all samples in run
Continuing Calibration Verification (CCV)	At beginning of run, every ten samples, and again after last sample. %R within ± 15% of true value	NFG (1) Method (2)	R(pos/ND) if %R <70% J(pos)/UJ(ND) if %R = 70-84% J(pos) if %R = > 116%	5B (H,L)[3]	Qualify samples bracketed by CCV outliers
Blank Contamination					
Method Blank (MB)	One per matrix per batch of (of ≤ 20 samples) Blank conc < MDL	NFG (1) Method (2)	U (pos) if result is < 5X method blank concentration	7	Refer to **TM-02** for additional information. Blank Evaluation based on NFG 1994

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Mercury by CVAA
(Based on Inorganic NFG 2010 and SW846 7470A & 7471B)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Instrument Blanks (ICB/CCB)	After each ICV & CCV | blank concentration | < MDL	NFG (1) Method (2)	Action level is 5x absolute value of blank conc. For positive blanks: U (pos) results < action level For negative blanks: J (pos)/UJ (ND) results < action level	Pos Blanks: 7 Neg Blanks: 7L[3]	Use blanks bracketing samples for Qualification Refer to **TM-02** for additional information. **Hierarchy of blank review:** **#1 - Review MB, quaify as needed** **#2 - Review IB , qualify as needed** **#3 - Review FB , qualify as needed**
Field Blank (FB)	Blank conc < MDL	EcoChem standard policy	U (pos) if result is < 5x action level, as per analyte.	6	Qualify in associated field samples only. Refer to **TM-02** for additional information.
Precision and Accuracy					
Laboratroy Control Sample (recovery)	One per matrix per batch (of ≤ 20 samples); LCSD not required %R between 80-120%	Method (2)	J (pos)/R (ND) if %R <50% J (pos)/UJ (ND) if %R 50% - 79% J (pos) if %R > 120%	10 (H,L)[3]	Qualify all samples in batch QAPP may have overriding accuracy limits. NFG does not address LCS
LCS/LCSD (RPD)	LCSD not required, if analyzed: RPD ≤ 20%	Method (2)	J (pos)/UJ (ND) if RPD > 20%	9	Qualify all samples in batch QAPP may have overriding precision limits.
Matris Spike/Matrix Spike Duplicate MS/MSD (recovery)	One per matrix per batch (of ≤ 20 samples); MSD not required %R between 75-125%	NFG (1) Method (2)	J (pos) if %R > 125% J (pos)/UJ (ND) if %R <75% J (pos)/R (ND) if %R < 30%	8 (H,L)[3]	No action if only one spike %R is outside criteria. NA if parent concentration >4x the amount spiked. Qualify all samples in batch. QAPP may have overriding accuracy limits.
MS/MSD (RPD)	MSD not required, if analyzed: RPD ≤ 20%	NFG (1) Method (2)	J (pos)/UJ (ND) if RPD > 20%	9	QAPP may have overriding precision limits.
Laboratory Duplicate	One per matrix per batch (of ≤ 20 samples) RPD ≤ 20% for results ≥ 5x RL Solids: difference < 2X RL for results < 5X RL Aqueous: difference < 1X RL for results < 5X RL	NFG (1) Method (2)	J (pos)/UJ (ND) if RPD > 20% or if difference > control limit	9	Qualify all samples in batch. QAPP may have overriding precision limits.

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Mercury by CVAA
(Based on Inorganic NFG 2010 and SW846 7470A & 7471B)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Reference Material (RM, SRM, or CRM)	Result ±20% of the 95% confidence interval of the true value for analytes	EcoChem standard policy	J (pos)/UJ (ND) if < LCL J (pos) if > UCL	12 (H,L)[3]	QAPP may have overriding accuracy limits. Some manufacturers may have different RM control limits
Field Duplicate	Solids: RPD <50% (for results ≥ 5x RL) OR difference < 2X RL (for results < 5X RL) Aqueous: RPD <35% (for results ≥ 5x RL) OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	Qualify only parent and field duplicate samples J (pos)/UJ (ND)	9	QAPP may have overriding precision limits. Client/QAPP may not require qualification based on field precision.
Compound Quantitation					
Total and Dissolved Comparison	Total > Dissolved	EcoChem standard policy	J (pos)/UJ (ND) if Dissolved > Total and results fall outside of standard duplicate precision criteria	14	
Calibration Range	Results < instrument linear range	NFG (1) Method (2)	if result exceeds linear range and sample was not diluted J (pos)	20	
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	**TM-04** EcoChem Policy for Rejection/Selection Process for Multiple Results

[1] National Functional Guidelines for Inorganic Superfund Data Review, January 2010.

[2] Method SW846 7470A Mercury in Liquid Waste (Manual Cold-Vapor Technique), Revision 1, September 1994.
Method SW846 7471B Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique), Revision 2, February 2007.

[3] "H" = high bias indicated; "L" = low bias indicated

[4] SW846, Chapter 3, Inorganic Analytes

(pos): Positive Result
(ND): Not Detected

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Conventional Analyses by Probe (i.e., pH, conductivity, dissolved oxygen)
(Based Inorganic NFG 2010 and EPA Methods)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	Cooler temperature: 4°C±2°C Preservation: Analyte/Method Specific	NFG [(1)] Method [(2)]	J (pos)/UJ (ND) if preservation requirements not met	1	Use **PJ** to qualify for cooler temp outliers.
Holding Time	Analyte/Method Specific	NFG [(1)] Method [(2)]	J (pos)/UJ (ND) if holding time exceeded	1	
Instrument Performance/Accuracy					
Calibration	Where applicable to method porbe calibrated according to manufacturer specifications	NFG [(1)] Method [(2)]	J (pos)/UJ (ND) if not calibrated	5A	
Calibration Verification/ Laboratory Control Sample	Where applicable to method check standard analyzed to verifiy calibration of probe	NFG [(1)] Method [(2)]	J(D)/UJ(ND) if %R < LCL J(D) if %R > UCL	5B (H,L)[3]	H for high bias; L for low bias
Precision					
Laboratory Duplicate	One per matrix per batch (of ≤ 20 samples) RPD ≤ 20% for results ≥ 5x RL Solids: difference < 2X RL for results < 5X RL Aqueous: difference < 1X RL for results < 5X RL	Method [(1)] NFG[(2)]	J (pos)/UJ (ND) if RPD > 20% or difference > control limit	9	Qualify all samples in batch. QAPP may have overriding precision limits
Field Duplicate	Solids: RPD <50% (for results ≥ 5x RL) OR difference < 2X RL (for results < 5X RL) Aqueous: RPD <35% (for results ≥ 5x RL) OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	Qualify only parent and field duplicate samples J (pos)/UJ (ND)	9	QAPP may have overriding precision limits. Client/QAPP may not require qualification based on field precision.

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Conventional Analyses by Probe (i.e., pH, conductivity, dissolved oxygen)
(Based Inorganic NFG 2010 and EPA Methods)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Compound Quantitation					
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported	11	na

[1] National Functional Guidelines for Inorganic Superfund Data Review, January 2010.
[2] SW846 or EPA Standard Methods
[3] "H" = high bias indicated; "L" = low bias indicated

(pos): Positive Result
(ND): Not Detected

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Conventional Methods by Gravimetric Analysis
(i.e., Total Solids, Total Dissolved Solids, Total Suspended Solids, Grain Size)
(Based on Inorganic NFG 2010 and EPA methods)

QC Element	EcoChem Acceptance Criteria	Source of Criteria	EcoChem Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	Cooler temperature: 4°C±2°C Preservation: Analyte/Method Specific	Method [(1)] NFG[(2)]	J (pos)/UJ (ND) if preservation requirements not met	1	Use **PJ** to qualify for cooler temp outliers.
Holding Time	Analyte/Method Specific	Method NFG[(2)]	J (pos)/UJ (ND) if holding time exceeded	1	
Blank Contamination					
Method Blank (MB)	If required by method,one per matrix per batch of (of ≤ 20 samples) Blank conc < MDL	NFG [(1)] Method [(2)]	U (pos) if result is < 5X method blank concentration	7	Refer to **TM-02** for additional information. Blank Evaluation based on NFG 1994
Precision and Accuracy					
LCS (If appropriate to method)	One per matrix per batch (of ≤ 20 samples) %R between 80-120%	Method [(2)]	J (pos)/R (ND) if %R <50% J (pos)/UJ (ND) if %R 50% - 79% J (pos) if %R > 120%	10 (H,L)[3]	Qualify all samples in batch QAPP may have overriding accuracy limits.
Reference Material (RM, SRM, or CRM)	Result ±20% of the 95% confidence interval of the true value for analytes	EcoChem standard policy	J (pos)/UJ (ND) if < LCL J (pos) if > UCL	12 (H,L)[3]	QAPP may have overriding accuracy limits. Some manufacturers may have different RM control limits

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Conventional Methods by Gravimetric Analysis
(i.e., Total Solids, Total Dissolved Solids, Total Suspended Solids, Grain Size)
(Based on Inorganic NFG 2010 and EPA methods)

QC Element	EcoChem Acceptance Criteria	Source of Criteria	EcoChem Action for Non-Conformance	Reason Code	Discussion and Comments
Laboratory Duplicate	One per matrix per batch (of ≤ 20 samples) RPD ≤ 20% for results ≥ 5x RL Solids: difference < 2X RL for results < 5X RL Aqueous: difference < 1X RL for results < 5X RL	NFG [1] Method [2]	J (pos)/UJ (ND) if RPD > 20% For Grain Size, no action if results for fraction are less than 5%	9	Qualify all samples in batch, except Grain Size - qualify parent only. QAPP may have overriding precision limits.
Field Duplicate	Solids: RPD <50% (for results ≥ 5x RL) OR difference < 2X RL (for results < 5X RL) Aqueous: RPD <35% (for results ≥ 5x RL) OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	Qualify only parent and field duplicate samples J (pos)/UJ (ND)	9	QAPP may have overriding precision limits. Client/QAPP may not require qualification based on field precision.
Compound Quantitation					
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte per sample	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	

[1] National Functional Guidelines for Inorganic Superfund Data Review, January 2010.
[2] SW846 or EPA Standard Methods
[3] "H" = high bias indicated; "L" = low bias indicated

(pos): Positive Result
(ND): Not Detected

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Conventional Methods with Instrument Calibrations (i.e., Ion Chromatography, Total Organic Carbon)
(Based on Inorganic NFG 2010 and EPA methods)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	Cooler temperature: 4°C±2°C Preservation: Analyte/Method Specific	NFG [(1)] Method [(2)]	J (pos)/UJ (ND) if preservation requirements not met	1	Use **PJ** to qualify for cooler temp outliers.
Holding Time	Analyte/Method Specific	NFG [(1)] Method [(2)]	J (pos)/UJ (ND) if holding time exceeded	1	
Instrument Performance					
Initial Calibration (ICAL)	blank + multiple standards as per method requirements r ≥ 0.995	NFG [(1)] Method [(2)]	J (pos)/UJ (ND) for r < 0.995	5A	
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R method specific	NFG [(1)] Method [(2)]	J (pos)/UJ (ND) if %R < lower control limit (LCL) J (pos) if %R > upper control limit (UCL)	5A (H,L)[3]	Qualify all samples in run
Continuing Calibration Verification (CCV)	Immediately following ICV, every 10 samples, and end of run %R method specific	NFG [(1)] Method [(2)]	J(pos)/UJ(ND) if %R < LCL J(pos) if %R > UCL	5B (H,L)[3]	Qualify samples bracketed by CCV outliers
Blank Contamination					
Method Blank (MB)	One per matrix per batch of (of ≤ 20 samples) Blank conc < MDL	NFG [(1)] Method [(2)]	U (pos) if result is < 5X method blank concentration	7	Refer to **TM-02** for additional information. Blank Evaluation based on NFG 1994

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Conventional Methods with Instrument Calibrations (i.e., Ion Chromatography, Total Organic Carbon)
(Based on Inorganic NFG 2010 and EPA methods)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Instrument Blanks (ICB/CCB)	After each ICV & CCV | blank concentration | < MDL	NFG [(1)] Method [(2)]	Action level is 5x absolute value of blank conc. For positive blanks: U (pos) results < action level For negative blanks: J (pos)/UJ (ND) results < action level	Pos Blanks: 7 Neg Blanks: 7L[3]	Use blanks bracketing samples for Qualification Refer to **TM-02** for additional information. **Hierarchy of blank review:** **#1 - Review MB, quaify as needed** **#2 - Review IB , qualify as needed** **#3 - Review FB , qualify as needed**
Field Blank (FB)	Blank conc < MDL	EcoChem standard policy	U (pos) if result is < 5x action level, as per analyte.	6	Qualify in associated field samples only. Refer to **TM-02** for additional information.
Precision and Accuracy					
Laboratory Control Sample (LCS)	One per matrix per batch (of ≤ 20 samples) %R within Method control limits (or Laboratory control limtis if none specified in method)	NFG [(1)] Method [(2)]	J (pos)/UJ (ND) if %R < LCL J (pos) if %R > UCL	10 (H,L)[3]	Qualify all samples in batch QAPP may have overriding accuracy limits.
Reference Materials (RM, CRM, SRM)	Result ±20% of the 95% confidence interval of the true value for analytes	EcoChem standard policy	J (pos)/UJ (ND) if < LCL J (pos) if > UCL	12 (H,L)[3]	QAPP may have overriding accuracy limits. Some manufacturers may have different RM control limits

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Conventional Methods with Instrument Calibrations (i.e., Ion Chromatography, Total Organic Carbon)
(Based on Inorganic NFG 2010 and EPA methods)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Matrix Spike/ Matrix Spike Duplicate (MS/MSD)	Where applicable to method; MSD may not be required One per matrix per batch (of ≤ 20 samples) For samples <4x spike level, %R within method control limits (or Laboratory control limtis if none specified in method)	NFG [1] Method [2]	J (pos)/UJ (ND) if %R < LCL J (pos) if %R > UCL	8 (H,L)3	Qualify all samples in batch No action if native analyte concentration ≥ 4x spike added. Qualify all samples in batch. QAPP may have overriding accuracy limits.
Laboratory Duplicate (or MS/MSD)	One per matrix per batch (of ≤ 20 samples) RPD ≤ 20% for results ≥ 5x RL Solids: difference < 2X RL for results < 5X RL Aqueous: difference < 1X RL for results < 5X RL	NFG [1] Method [2]	J (pos)/UJ (ND) if RPD > 20% or if difference > control limit	9	Qualify all samples in batch. QAPP may have overriding precision limits.
Field Duplicate	Solids: RPD <50% (for results ≥ 5x RL) OR difference < 2X RL (for results < 5X RL) Aqueous: RPD <35% (for results ≥ 5x RL) OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	Qualify only parent and field duplicate samples J (pos)/UJ (ND)	9	QAPP may have overriding precision limits. Client/QAPP may not require qualification based on field precision.
Compound Quantitation					
Linear Range	Sample concentrations less than highest calibration standard	NFG [1] Method [2]	If result exceeds linear range & sample was not diluted J (pos)	20	
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	**TM-04** EcoChem Policy for Rejection/Selection Process for Multiple Results

[1] National Functional Guidelines for Inorganic Superfund Data Review, January 2010.
[2] SW846 or EPA Standard Methods
[3] "H" = high bias indicated; "L" = low bias indicated

(pos): Positive Result
(ND): Not Detected

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ECOCHEM
Data Quality

APPENDIX B

QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53710-1	MW-10-1.5	580-53710-1	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	4,4'-DDT	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	beta-BHC	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8270D	Bis(2-ethylhexyl) phthalate	20	ug/Kg	J B	U	7
580-53710-1	MW-10-1.5	580-53710-1	8270D	Butyl benzyl phthalate	16	ug/Kg	J B	U	7
580-53710-1	MW-10-1.5	580-53710-1	8081B	Chlordane (technical)	ND	ug/Kg	* H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	delta-BHC	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8270D	Diethyl phthalate	18	ug/Kg	J B	U	7
580-53710-1	MW-10-1.5	580-53710-1	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	Endosulfan sulfate	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	Endrin	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	Endrin ketone	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	NWTPH-Gx	Gasoline	3.6	mg/Kg	J B	U	7
580-53710-1	MW-10-1.5	580-53710-1	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	Heptachlor epoxide	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	6020A	Lead	3200	mg/Kg		J	20
580-53710-1	MW-10-1.5	580-53710-1	8081B	Methoxychlor	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53710-1	MW-10-1.5	580-53710-1	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-1.5	580-53710-1	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	1,1,1-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	1,1,2-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	1,1-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	1,2,3-Trichloropropane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	1,2-Dibromoethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	1,2-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	1,2-Dichloropropane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	2-Butanone	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	2-Hexanone	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8081B	4,4'-DDD	0.026	ug/Kg	J B	U	7
580-53710-1	MW-10-3.5-A	580-53710-3	8081B	4,4'-DDE	0.023	ug/Kg	J F1	NJ	3
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	4-Methyl-2-pentanone	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Acetone	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Acrolein	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Acrylonitrile	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8081B	Aldrin	0.061	ug/Kg	J F1	J	3,8L
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Benzene	5.5	ug/Kg	J H	J	1
580-53710-1	MW-10-3.5-A	580-53710-3	8081B	beta-BHC	0.28	ug/Kg		NJ	3
580-53710-1	MW-10-3.5-A	580-53710-3	8270D	Bis(2-ethylhexyl) phthalate	43	ug/Kg	J B	U	7
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Bromochloromethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Bromodichloromethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Bromoform	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Bromomethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8270D	Butyl benzyl phthalate	12	ug/Kg	J B	U	7
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Carbon disulfide	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Carbon tetrachloride	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Chlorobenzene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Chlorodibromomethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Chloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Chloroform	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Chloromethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	cis-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	cis-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Dibromomethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Dichlorodifluoromethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8270D	Diethyl phthalate	20	ug/Kg	J B	U	7
580-53710-1	MW-10-3.5-A	580-53710-3	8270D	Di-n-butyl phthalate	14	ug/Kg	J B	U	7
580-53710-1	MW-10-3.5-A	580-53710-3	8081B	Endosulfan II	ND	ug/Kg	F1	J	8L
580-53710-1	MW-10-3.5-A	580-53710-3	8081B	Endrin aldehyde	ND	ug/Kg	F1	UJ	8L
580-53710-1	MW-10-3.5-A	580-53710-3	8081B	Endrin ketone	0.25	ug/Kg	B	U	7
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Ethylbenzene	5.7	ug/Kg	J H	J	1
580-53710-1	MW-10-3.5-A	580-53710-3	8081B	gamma-BHC (Lindane)	ND	ug/Kg	F1	R	8L
580-53710-1	MW-10-3.5-A	580-53710-3	NWTPH-Gx	Gasoline	ND	mg/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8081B	Heptachlor epoxide	0.15	ug/Kg	B	NJ	3
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Iodomethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Isopropylbenzene	4.7	ug/Kg	J H	J	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Methyl tert-butyl ether	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Methylene Chloride	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	m-Xylene & p-Xylene	4.6	ug/Kg	J H	J	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	o-Xylene	6.5	ug/Kg	J H	J	1
580-53710-1	MW-10-3.5-A	580-53710-3	D 2216	Percent Moisture	22	%		J	1
580-53710-1	MW-10-3.5-A	580-53710-3	D 2216	Percent Solids	78	%		J	1
580-53710-1	MW-10-3.5-A	580-53710-3	9045C	pH	5.72	SU		J	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Styrene	3.9	ug/Kg	J H	J	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	t-Butylbenzene	6.2	ug/Kg	J H	J	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Tetrachloroethene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Toluene	5.4	ug/Kg	J H	J	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	trans-1,2-Dichloroethene	8.0	ug/Kg	J H	J	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	trans-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Trichloroethene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Trichlorofluoromethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Vinyl acetate	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-3.5-A	580-53710-3	8260C	Vinyl chloride	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	1,1,1-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	1,1,2-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	1,1-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	1,2,3-Trichloropropane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	1,2-Dibromoethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	1,2-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	1,2-Dichloropropane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	2-Butanone	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	2-Hexanone	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8081B	4,4'-DDD	0.093	ug/Kg	J B	U	7
580-53710-1	MW-10-23-A	580-53710-7	8081B	4,4'-DDT	0.025	ug/Kg	J	NJ	3
580-53710-1	MW-10-23-A	580-53710-7	8260C	4-Methyl-2-pentanone	37	ug/Kg	J H	J	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Acetone	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Acrolein	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Acrylonitrile	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Benzene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8270D	Bis(2-ethylhexyl) phthalate	28	ug/Kg	J B	U	7
580-53710-1	MW-10-23-A	580-53710-7	8260C	Bromochloromethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Bromodichloromethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Bromoform	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Bromomethane	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53710-1	MW-10-23-A	580-53710-7	8270D	Butyl benzyl phthalate	8.6	ug/Kg	J B	U	7
580-53710-1	MW-10-23-A	580-53710-7	8260C	Carbon disulfide	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Carbon tetrachloride	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Chlorobenzene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Chlorodibromomethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Chloroethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Chloroform	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Chloromethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	cis-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	cis-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Dibromomethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Dichlorodifluoromethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8270D	Diethyl phthalate	17	ug/Kg	J B	U	7
580-53710-1	MW-10-23-A	580-53710-7	8270D	Di-n-butyl phthalate	9.4	ug/Kg	J B	U	7
580-53710-1	MW-10-23-A	580-53710-7	8270D	Di-n-octyl phthalate	86	ug/Kg	F1	J	8L
580-53710-1	MW-10-23-A	580-53710-7	8081B	Endrin aldehyde	0.14	ug/Kg	J B	NJ	3
580-53710-1	MW-10-23-A	580-53710-7	8081B	Endrin ketone	0.29	ug/Kg	B	U	7
580-53710-1	MW-10-23-A	580-53710-7	8260C	Ethylbenzene	2.6	ug/Kg	J H	J	1
580-53710-1	MW-10-23-A	580-53710-7	NWTPH-Gx	Gasoline	ND	mg/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8081B	Heptachlor epoxide	0.012	ug/Kg	J B	NJ	3
580-53710-1	MW-10-23-A	580-53710-7	8260C	Iodomethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Isopropylbenzene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8081B	Methoxychlor	0.24	ug/Kg	J	NJ	3
580-53710-1	MW-10-23-A	580-53710-7	8260C	Methyl tert-butyl ether	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Methylene Chloride	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	m-Xylene & p-Xylene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	o-Xylene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	D 2216	Percent Moisture	13	%		J	1
580-53710-1	MW-10-23-A	580-53710-7	D 2216	Percent Solids	87	%		J	1
580-53710-1	MW-10-23-A	580-53710-7	9045C	pH	6.68	SU		J	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Styrene	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53710-1	MW-10-23-A	580-53710-7	8260C	t-Butylbenzene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Tetrachloroethene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Toluene	4.2	ug/Kg	J H	J	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	trans-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	trans-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Trichloroethene	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Trichlorofluoromethane	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Vinyl acetate	ND	ug/Kg	H	UJ	1
580-53710-1	MW-10-23-A	580-53710-7	8260C	Vinyl chloride	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	2,4'-DDD	0.44	ug/Kg	J H	NJ	1,3
580-53747-1	MW-9-2	580-53747-1	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	4,4'-DDD	1.2	ug/Kg	H	J	1
580-53747-1	MW-9-2	580-53747-1	8081B	4,4'-DDE	1.4	ug/Kg	H	NJ	1,3
580-53747-1	MW-9-2	580-53747-1	8081B	4,4'-DDT	1.4	ug/Kg	H	J	1
580-53747-1	MW-9-2	580-53747-1	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8270D	Benzo[g,h,i]perylene	39	ug/Kg	*	J	9
580-53747-1	MW-9-2	580-53747-1	8081B	beta-BHC	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8270D	Bis(2-ethylhexyl) phthalate	73	ug/Kg	J B	U	7
580-53747-1	MW-9-2	580-53747-1	8081B	Chlordane (technical)	ND	ug/Kg	* H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	delta-BHC	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8270D	Dibenz(a,h)anthracene	7.9	ug/Kg	J *	J	9
580-53747-1	MW-9-2	580-53747-1	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8270D	Diethyl phthalate	43	ug/Kg	J B	U	7
580-53747-1	MW-9-2	580-53747-1	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	Endosulfan sulfate	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53747-1	MW-9-2	580-53747-1	8081B	Endrin	ND	ug/Kg	H F2 F1	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	Endrin ketone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	NWTPH-Gx	Gasoline	1.6	mg/Kg	J B	U	7
580-53747-1	MW-9-2	580-53747-1	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	Heptachlor epoxide	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8270D	Indeno[1,2,3-cd]pyrene	34	ug/Kg	*	J	9
580-53747-1	MW-9-2	580-53747-1	8081B	Methoxychlor	ND	ug/Kg	H F1	UJ	1
580-53747-1	MW-9-2	580-53747-1	8260C	Methylene Chloride	34	ug/Kg		U	7
580-53747-1	MW-9-2	580-53747-1	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	9060_PSEP	Total Organic Carbon - Duplicates	5200	mg/Kg		J	9
580-53747-1	MW-9-2	580-53747-1	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-2	580-53747-1	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	1,1,1-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	1,1,2-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	1,1-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	1,2,3-Trichloropropane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	1,2-Dibromoethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	1,2-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	1,2-Dichloropropane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	2-Butanone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	2-Hexanone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8081B	4,4'-DDD	0.063	ug/Kg	J	NJ	3
580-53747-1	MW-3-21-A	580-53747-14	8260C	4-Methyl-2-pentanone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Acetone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Acrolein	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53747-1	MW-3-21-A	580-53747-14	8260C	Acrylonitrile	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Benzene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8081B	beta-BHC	0.095	ug/Kg	J	NJ	3
580-53747-1	MW-3-21-A	580-53747-14	8260C	Bromochloromethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Bromodichloromethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Bromoform	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Bromomethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8270D	Butyl benzyl phthalate	33	ug/Kg	B	U	7
580-53747-1	MW-3-21-A	580-53747-14	8260C	Carbon disulfide	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Carbon tetrachloride	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Chlorobenzene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Chlorodibromomethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Chloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Chloroform	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Chloromethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	cis-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	cis-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Dibromomethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Dichlorodifluoromethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8270D	Diethyl phthalate	18	ug/Kg	J B	U	7
580-53747-1	MW-3-21-A	580-53747-14	8081B	Endosulfan I	0.029	ug/Kg	J	NJ	3
580-53747-1	MW-3-21-A	580-53747-14	8081B	Endosulfan sulfate	0.066	ug/Kg	J	NJ	3
580-53747-1	MW-3-21-A	580-53747-14	8081B	Endrin ketone	0.51	ug/Kg	B	J	3
580-53747-1	MW-3-21-A	580-53747-14	8260C	Ethylbenzene	4.0	ug/Kg	J H	J	1
580-53747-1	MW-3-21-A	580-53747-14	8081B	gamma-Chlordane	0.12	ug/Kg	J	NJ	3
580-53747-1	MW-3-21-A	580-53747-14	NWTPH-Gx	Gasoline	1.2	mg/Kg	J H	J	1
580-53747-1	MW-3-21-A	580-53747-14	8081B	Heptachlor epoxide	0.0082	ug/Kg	J B	U	7
580-53747-1	MW-3-21-A	580-53747-14	8260C	Iodomethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Isopropylbenzene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Methyl tert-butyl ether	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Methylene Chloride	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53747-1	MW-3-21-A	580-53747-14	8260C	m-Xylene & p-Xylene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	o-Xylene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	D 2216	Percent Moisture	28	%		J	1
580-53747-1	MW-3-21-A	580-53747-14	D 2216	Percent Solids	72	%		J	1
580-53747-1	MW-3-21-A	580-53747-14	9045C	pH	7.11	SU		J	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Styrene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	t-Butylbenzene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Tetrachloroethene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Toluene	4.8	ug/Kg	J H	J	1
580-53747-1	MW-3-21-A	580-53747-14	8081B	Toxaphene	ND	ug/Kg		UJ	10L
580-53747-1	MW-3-21-A	580-53747-14	8260C	trans-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	trans-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Trichloroethene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Trichlorofluoromethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Vinyl acetate	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-21-A	580-53747-14	8260C	Vinyl chloride	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	4,4'-DDT	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	beta-BHC	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8270D	Bis(2-ethylhexyl) phthalate	19	ug/Kg	J B	U	7
580-53747-1	MW-3-4.5	580-53747-3	8270D	Butyl benzyl phthalate	8.9	ug/Kg	J B	U	7
580-53747-1	MW-3-4.5	580-53747-3	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53747-1	MW-3-4.5	580-53747-3	8081B	delta-BHC	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8270D	Diethyl phthalate	8.1	ug/Kg	J B	U	7
580-53747-1	MW-3-4.5	580-53747-3	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	Endosulfan sulfate	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	Endrin	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	Endrin ketone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	NWTPH-Gx	Gasoline	3.0	mg/Kg	J B	U	7
580-53747-1	MW-3-4.5	580-53747-3	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	Heptachlor epoxide	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	Methoxychlor	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8260C	Methylene Chloride	28	ug/Kg		U	7
580-53747-1	MW-3-4.5	580-53747-3	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-4.5	580-53747-3	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	NWTPH-Dx	#2 Diesel (C10-C24)	12	mg/Kg	J Z	J	2,5BH
580-53747-1	MW-3-1.5	580-53747-4	8081B	2,4'-DDD	0.48	ug/Kg	J H	NJ	1,3
580-53747-1	MW-3-1.5	580-53747-4	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	2,4'-DDT	0.42	ug/Kg	J H	NJ	1,3
580-53747-1	MW-3-1.5	580-53747-4	8081B	4,4'-DDD	2.1	ug/Kg	H	NJ	1,3
580-53747-1	MW-3-1.5	580-53747-4	8081B	4,4'-DDE	1.5	ug/Kg	H	NJ	1,3
580-53747-1	MW-3-1.5	580-53747-4	8081B	4,4'-DDT	2.4	ug/Kg	H	J	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8270D	Benzo[g,h,i]perylene	29	ug/Kg	*	J	9
580-53747-1	MW-3-1.5	580-53747-4	8081B	beta-BHC	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53747-1	MW-3-1.5	580-53747-4	8270D	Bis(2-ethylhexyl) phthalate	53	ug/Kg	J B	U	7
580-53747-1	MW-3-1.5	580-53747-4	8270D	Butyl benzyl phthalate	30	ug/Kg	J B	U	7
580-53747-1	MW-3-1.5	580-53747-4	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	delta-BHC	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8270D	Dibenz(a,h)anthracene	5.6	ug/Kg	J *	J	9
580-53747-1	MW-3-1.5	580-53747-4	8081B	Dieldrin	0.68	ug/Kg	J H	NJ	1,3
580-53747-1	MW-3-1.5	580-53747-4	8270D	Diethyl phthalate	39	ug/Kg	J B	U	7
580-53747-1	MW-3-1.5	580-53747-4	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	Endosulfan sulfate	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	Endrin	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	Endrin ketone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	NWTPH-Gx	Gasoline	0.99	mg/Kg	J B	U	7
580-53747-1	MW-3-1.5	580-53747-4	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	Heptachlor epoxide	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8270D	Indeno[1,2,3-cd]pyrene	25	ug/Kg	*	J	9
580-53747-1	MW-3-1.5	580-53747-4	8081B	Methoxychlor	1.3	ug/Kg	J H	J	1
580-53747-1	MW-3-1.5	580-53747-4	NWTPH-Dx	Motor Oil (>C24-C36)	24	mg/Kg	J Z	J	2,5BH
580-53747-1	MW-3-1.5	580-53747-4	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-3-1.5	580-53747-4	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	1,1,1-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	1,1,2-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	1,1-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	1,2,3-Trichloropropane	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53747-1	MW-9-19-A	580-53747-7	8260C	1,2-Dibromoethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	1,2-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	1,2-Dichloropropane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	2-Butanone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	2-Hexanone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	4-Methyl-2-pentanone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Acetone	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Acrolein	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Acrylonitrile	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8081B	alpha-Chlordane	ND	ug/Kg	F1	UJ	8L
580-53747-1	MW-9-19-A	580-53747-7	8260C	Benzene	6.3	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8270D	Bis(2-ethylhexyl) phthalate	18	ug/Kg	J B	U	7
580-53747-1	MW-9-19-A	580-53747-7	8260C	Bromochloromethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Bromodichloromethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Bromoform	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Bromomethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8270D	Butyl benzyl phthalate	18	ug/Kg	J B	U	7
580-53747-1	MW-9-19-A	580-53747-7	8260C	Carbon disulfide	8.4	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Carbon tetrachloride	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Chlorobenzene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Chlorodibromomethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Chloroethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Chloroform	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Chloromethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	cis-1,2-Dichloroethene	11	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	cis-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Dibromomethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Dichlorodifluoromethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8270D	Diethyl phthalate	20	ug/Kg	J B	U	7
580-53747-1	MW-9-19-A	580-53747-7	8081B	Endrin	ND	ug/Kg	F1	UJ	8

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53747-1	MW-9-19-A	580-53747-7	8081B	Endrin ketone	0.12	ug/Kg	J B	U	7
580-53747-1	MW-9-19-A	580-53747-7	8260C	Ethylbenzene	6.7	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8081B	gamma-Chlordane	0.064	ug/Kg	J	NJ	3
580-53747-1	MW-9-19-A	580-53747-7	NWTPH-Gx	Gasoline	2.6	mg/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8081B	Heptachlor	0.10	ug/Kg	J B	U	7
580-53747-1	MW-9-19-A	580-53747-7	8081B	Heptachlor epoxide	0.0078	ug/Kg	J B F1	UJ	7,8
580-53747-1	MW-9-19-A	580-53747-7	8260C	Iodomethane	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Isopropylbenzene	7.4	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8081B	Methoxychlor	0.11	ug/Kg	J F1	NJ	3
580-53747-1	MW-9-19-A	580-53747-7	8260C	Methyl tert-butyl ether	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Methylene Chloride	28	ug/Kg	J H B	UJ	1,7
580-53747-1	MW-9-19-A	580-53747-7	8260C	m-Xylene & p-Xylene	8.2	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	o-Xylene	7.3	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	D 2216	Percent Moisture	27	%		J	1
580-53747-1	MW-9-19-A	580-53747-7	D 2216	Percent Solids	73	%		J	1
580-53747-1	MW-9-19-A	580-53747-7	9045C	pH	3.60	SU		J	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Styrene	7.1	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	t-Butylbenzene	11	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Tetrachloroethene	9.3	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Toluene	8.3	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8081B	Toxaphene	ND	ug/Kg		UJ	10L
580-53747-1	MW-9-19-A	580-53747-7	8260C	trans-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	trans-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Trichloroethene	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Trichlorofluoromethane	10	ug/Kg	J H	J	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Vinyl acetate	ND	ug/Kg	H	UJ	1
580-53747-1	MW-9-19-A	580-53747-7	8260C	Vinyl chloride	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2	580-53787-1	8081B	2,4'-DDD	0.29	ug/Kg	H	J	1,3,13L
580-53787-1	MW-1-2	580-53787-1	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1,13L

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	MW-1-2	580-53787-1	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8081B	4,4'-DDE	1.5	ug/Kg	H	J	1,3,9,13L
580-53787-1	MW-1-2	580-53787-1	8081B	4,4'-DDT	2.3	ug/Kg	H	J	1,9,10L,13L
580-53787-1	MW-1-2	580-53787-1	8260C	Acrolein	ND	ug/Kg		UJ	5BL
580-53787-1	MW-1-2	580-53787-1	8081B	Aldrin	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8081B	beta-BHC	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8270D	Bis(2-ethylhexyl) phthalate	15	ug/Kg	J B	U	7
580-53787-1	MW-1-2	580-53787-1	8081B	Chlordane (technical)	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8081B	delta-BHC	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8081B	Dieldrin	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8270D	Diethyl phthalate	12	ug/Kg	J B	U	7
580-53787-1	MW-1-2	580-53787-1	8270D	Di-n-butyl phthalate	12	ug/Kg	J B	U	7
580-53787-1	MW-1-2	580-53787-1	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8081B	Endosulfan sulfate	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8081B	Endrin	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8081B	Endrin ketone	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2	580-53787-1	NWTPH-Gx	Gasoline	0.92	mg/Kg	J B	U	7
580-53787-1	MW-1-2	580-53787-1	8081B	Heptachlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8081B	Heptachlor epoxide	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8081B	Methoxychlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8082A	PCB-1016	ND	ug/Kg		UJ	13L
580-53787-1	MW-1-2	580-53787-1	8082A	PCB-1221	ND	ug/Kg		UJ	13L
580-53787-1	MW-1-2	580-53787-1	8082A	PCB-1232	ND	ug/Kg		UJ	13L

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	MW-1-2	580-53787-1	8082A	PCB-1242	ND	ug/Kg		UJ	13L
580-53787-1	MW-1-2	580-53787-1	8082A	PCB-1248	ND	ug/Kg		UJ	13L
580-53787-1	MW-1-2	580-53787-1	8082A	PCB-1254	ND	ug/Kg		UJ	13L
580-53787-1	MW-1-2	580-53787-1	8082A	PCB-1260	7.1	ug/Kg		J	13L
580-53787-1	MW-1-2	580-53787-1	8082A	PCB-1262	ND	ug/Kg		UJ	13L
580-53787-1	MW-1-2	580-53787-1	8082A	PCB-1268	ND	ug/Kg		UJ	13L
580-53787-1	MW-1-2	580-53787-1	D 2216	Percent Moisture	21	%		J	1
580-53787-1	MW-1-2	580-53787-1	D 2216	Percent Solids	79	%		J	1
580-53787-1	MW-1-2	580-53787-1	8082A	Polychlorinated biphenyls, Total	7.1	ug/Kg		UJ	13L
580-53787-1	MW-1-2	580-53787-1	8081B	Toxaphene	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-2	580-53787-1	8260C	Vinyl chloride	ND	ug/Kg	*	UJ	10L
580-53787-1	BG-1-7-A	580-53787-11	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	1,1,1-Trichloroethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	1,1,2-Trichloroethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	1,1-Dichloroethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	1,2,3-Trichloropropane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	1,2-Dibromoethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	1,2-Dichloroethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	1,2-Dichloropropane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	2-Butanone	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	2-Hexanone	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8081B	4,4'-DDT	0.036	ug/Kg	J	NJ	3
580-53787-1	BG-1-7-A	580-53787-11	8260C	4-Methyl-2-pentanone	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Acetone	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Acrolein	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Acrylonitrile	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Benzene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8270D	Bis(2-ethylhexyl) phthalate	23	ug/Kg	J B	U	7

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	BG-1-7-A	580-53787-11	8260C	Bromochloromethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Bromodichloromethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Bromoform	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Bromomethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8270D	Butyl benzyl phthalate	18	ug/Kg	J B	U	7
580-53787-1	BG-1-7-A	580-53787-11	8260C	Carbon disulfide	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Carbon tetrachloride	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Chlorobenzene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Chlorodibromomethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Chloroethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Chloroform	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Chloromethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	cis-1,2-Dichloroethene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	cis-1,3-Dichloropropene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Dibromomethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Dichlorodifluoromethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8270D	Diethyl phthalate	20	ug/Kg	J B	U	7
580-53787-1	BG-1-7-A	580-53787-11	8081B	Endrin	0.021	ug/Kg	J	NJ	3
580-53787-1	BG-1-7-A	580-53787-11	8081B	Endrin ketone	0.074	ug/Kg	J B	U	7
580-53787-1	BG-1-7-A	580-53787-11	8260C	Ethylbenzene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8081B	Heptachlor epoxide	0.0022	ug/Kg	J B	U	7
580-53787-1	BG-1-7-A	580-53787-11	8260C	Iodomethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Isopropylbenzene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8081B	Methoxychlor	0.078	ug/Kg	J	NJ	3
580-53787-1	BG-1-7-A	580-53787-11	8260C	Methyl tert-butyl ether	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Methylene Chloride	25	ug/Kg	J H B	UJ	1,7
580-53787-1	BG-1-7-A	580-53787-11	8260C	m-Xylene & p-Xylene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	o-Xylene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	D 2216	Percent Moisture	24	%		J	1
580-53787-1	BG-1-7-A	580-53787-11	D 2216	Percent Solids	76	%		J	1
580-53787-1	BG-1-7-A	580-53787-11	9045C	pH	7.53	SU		J	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	BG-1-7-A	580-53787-11	8260C	Styrene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	t-Butylbenzene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Tetrachloroethene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Toluene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8081B	Toxaphene	ND	ug/Kg		UJ	5BL,10L
580-53787-1	BG-1-7-A	580-53787-11	8260C	trans-1,2-Dichloroethene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	trans-1,3-Dichloropropene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Trichloroethene	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Trichlorofluoromethane	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Vinyl acetate	ND	ug/Kg	H	J	1
580-53787-1	BG-1-7-A	580-53787-11	8260C	Vinyl chloride	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	1,1,1-Trichloroethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	1,1,2-Trichloroethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	1,1-Dichloroethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	1,2,3-Trichloropropane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	1,2-Dibromoethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	1,2-Dichloroethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	1,2-Dichloropropane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	2-Butanone	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	2-Hexanone	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8081B	4,4'-DDD	0.036	ug/Kg	J	NJ	3
580-53787-1	MW-5-17-A	580-53787-15	8081B	4,4'-DDE	0.079	ug/Kg	J	NJ	3
580-53787-1	MW-5-17-A	580-53787-15	8260C	4-Methyl-2-pentanone	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Acetone	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Acrolein	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Acrylonitrile	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Benzene	ND	ug/Kg	H	J	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	MW-5-17-A	580-53787-15	8270D	Bis(2-ethylhexyl) phthalate	18	ug/Kg	J B	U	7
580-53787-1	MW-5-17-A	580-53787-15	8260C	Bromochloromethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Bromodichloromethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Bromoform	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Bromomethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8270D	Butyl benzyl phthalate	17	ug/Kg	J B	U	7
580-53787-1	MW-5-17-A	580-53787-15	8260C	Carbon disulfide	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Carbon tetrachloride	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Chlorobenzene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Chlorodibromomethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Chloroethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Chloroform	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Chloromethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	cis-1,2-Dichloroethene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	cis-1,3-Dichloropropene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Dibromomethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Dichlorodifluoromethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8270D	Diethyl phthalate	19	ug/Kg	J B	U	7
580-53787-1	MW-5-17-A	580-53787-15	8081B	Endrin	0.091	ug/Kg	J	NJ	3
580-53787-1	MW-5-17-A	580-53787-15	8081B	Endrin ketone	0.077	ug/Kg	J B	U	7
580-53787-1	MW-5-17-A	580-53787-15	8260C	Ethylbenzene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8081B	gamma-Chlordane	0.055	ug/Kg	J	NJ	3
580-53787-1	MW-5-17-A	580-53787-15	8081B	Heptachlor	0.087	ug/Kg	J B	U	7
580-53787-1	MW-5-17-A	580-53787-15	8260C	Iodomethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Isopropylbenzene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8081B	Methoxychlor	0.046	ug/Kg	J	NJ	3
580-53787-1	MW-5-17-A	580-53787-15	8260C	Methyl tert-butyl ether	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Methylene Chloride	32	ug/Kg	J H B	UJ	1,7
580-53787-1	MW-5-17-A	580-53787-15	8260C	m-Xylene & p-Xylene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	o-Xylene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	D 2216	Percent Moisture	23	%		J	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	MW-5-17-A	580-53787-15	D 2216	Percent Solids	77	%		J	1
580-53787-1	MW-5-17-A	580-53787-15	9045C	pH	7.48	SU		J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Styrene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	t-Butylbenzene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Tetrachloroethene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Toluene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8081B	Toxaphene	ND	ug/Kg		UJ	5BL,10L
580-53787-1	MW-5-17-A	580-53787-15	8260C	trans-1,2-Dichloroethene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	trans-1,3-Dichloropropene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Trichloroethene	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Trichlorofluoromethane	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Vinyl acetate	ND	ug/Kg	H	J	1
580-53787-1	MW-5-17-A	580-53787-15	8260C	Vinyl chloride	ND	ug/Kg	H	J	1
580-53787-1	MW-5-22-A	580-53787-16	8270D	Bis(2-ethylhexyl) phthalate	12	ug/Kg	J B	U	7
580-53787-1	MW-5-22-A	580-53787-16	8270D	Diethyl phthalate	10	ug/Kg	J B	U	7
580-53787-1	MW-5-22-A	580-53787-16	8270D	Di-n-butyl phthalate	14	ug/Kg	J B	U	7
580-53787-1	MW-5-22-A	580-53787-16	NWTPH-Gx	Gasoline	0.95	mg/Kg	J B	U	7
580-53787-1	MW-5-22-A	580-53787-16	D 2216	Percent Moisture	29	%		J	1
580-53787-1	MW-5-22-A	580-53787-16	D 2216	Percent Solids	71	%		J	1
580-53787-1	MW-1-9	580-53787-2	8270D	Bis(2-ethylhexyl) phthalate	110	ug/Kg	J B	U	7
580-53787-1	MW-1-9	580-53787-2	8270D	Diethyl phthalate	130	ug/Kg	J B	U	7
580-53787-1	MW-1-9	580-53787-2	8082A	PCB-1254	120	ug/Kg		J	8H
580-53787-1	MW-1-9	580-53787-2	D 2216	Percent Moisture	29	%		J	1
580-53787-1	MW-1-9	580-53787-2	D 2216	Percent Solids	71	%		J	1
580-53787-1	MW-1-9	580-53787-2	8082A	Polychlorinated biphenyls, Total	120	ug/Kg		J	8H
580-53787-1	MW-1-12	580-53787-3	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-12	580-53787-3	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-12	580-53787-3	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-12	580-53787-3	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-12	580-53787-3	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1,13L

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	MW-1-12	580-53787-3	8081B	4,4'-DDT	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-12	580-53787-3	8260C	Acrolein	ND	ug/Kg		UJ	5BL
580-53787-1	MW-1-12	580-53787-3	8081B	Aldrin	0.068	ug/Kg	J H	NJ	1,3,9,10L,13L
580-53787-1	MW-1-12	580-53787-3	8081B	alpha-BHC	0.57	ug/Kg	H	NJ	1,3,9,10L,13L
580-53787-1	MW-1-12	580-53787-3	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-12	580-53787-3	8081B	beta-BHC	0.87	ug/Kg	H	J	1,9,10L,13L
580-53787-1	MW-1-12	580-53787-3	8270D	Bis(2-ethylhexyl) phthalate	20	ug/Kg	J B	U	7
580-53787-1	MW-1-12	580-53787-3	8081B	Chlordane (technical)	17	ug/Kg	H E	NJ	1,3,13L,20
580-53787-1	MW-1-12	580-53787-3	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-12	580-53787-3	8081B	delta-BHC	0.71	ug/Kg	H	J	1,9,13L
580-53787-1	MW-1-12	580-53787-3	8081B	Dieldrin	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-12	580-53787-3	8270D	Diethyl phthalate	13	ug/Kg	J B	U	7
580-53787-1	MW-1-12	580-53787-3	8270D	Di-n-butyl phthalate	11	ug/Kg	J B	U	7
580-53787-1	MW-1-12	580-53787-3	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-12	580-53787-3	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-12	580-53787-3	8081B	Endosulfan sulfate	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-12	580-53787-3	8081B	Endrin	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-12	580-53787-3	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-12	580-53787-3	8081B	Endrin ketone	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-12	580-53787-3	8081B	gamma-BHC (Lindane)	0.23	ug/Kg	H	NJ	1,3,9,10L,13L
580-53787-1	MW-1-12	580-53787-3	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-12	580-53787-3	NWTPH-Gx	Gasoline	0.77	mg/Kg	J B	U	7
580-53787-1	MW-1-12	580-53787-3	8081B	Heptachlor	1.7	ug/Kg	H	NJ	1,3,9,13L
580-53787-1	MW-1-12	580-53787-3	8081B	Heptachlor epoxide	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-12	580-53787-3	8081B	Methoxychlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-12	580-53787-3	8081B	oxy-Chlordane	NC	ug/Kg	H	R	14
580-53787-1	MW-1-12	580-53787-3	D 2216	Percent Moisture	23	%		J	1
580-53787-1	MW-1-12	580-53787-3	D 2216	Percent Solids	77	%		J	1
580-53787-1	MW-1-12	580-53787-3	8081B	Toxaphene	ND	ug/Kg	H	UJ	1,13L
580-53787-1	MW-1-12	580-53787-3	8081B	trans-Nonachlor	NC	ug/Kg	H	R	14
580-53787-1	MW-1-12	580-53787-3	8260C	Vinyl chloride	ND	ug/Kg	*	UJ	10L

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	BG-1-3	580-53787-4	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	4,4'-DDT	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8260C	Acrolein	ND	ug/Kg		UJ	5BL
580-53787-1	BG-1-3	580-53787-4	8081B	Aldrin	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-1-3	580-53787-4	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8081B	beta-BHC	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8270D	Bis(2-ethylhexyl) phthalate	47	ug/Kg	J B	U	7
580-53787-1	BG-1-3	580-53787-4	8081B	Chlordane (technical)	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	delta-BHC	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	Dieldrin	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8270D	Diethyl phthalate	50	ug/Kg	J B	U	7
580-53787-1	BG-1-3	580-53787-4	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8081B	Endosulfan sulfate	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8081B	Endrin	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8081B	Endrin ketone	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	NWTPH-Gx	Gasoline	3.1	mg/Kg	J B	U	7
580-53787-1	BG-1-3	580-53787-4	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	Heptachlor epoxide	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	Methoxychlor	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1,10L
580-53787-1	BG-1-3	580-53787-4	D 2216	Percent Moisture	12	%		J	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	BG-1-3	580-53787-4	D 2216	Percent Solids	88	%		J	1
580-53787-1	BG-1-3	580-53787-4	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53787-1	BG-1-3	580-53787-4	8260C	Vinyl chloride	ND	ug/Kg	*	UJ	10L
580-53787-1	BG-1-23	580-53787-5	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-1-23	580-53787-5	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-1-23	580-53787-5	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-1-23	580-53787-5	8081B	4,4'-DDD	0.052	ug/Kg	J H	NJ	1,3,9,13L
580-53787-1	BG-1-23	580-53787-5	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-1-23	580-53787-5	8081B	4,4'-DDT	0.13	ug/Kg	J H	NJ	1,3,9,10L,13L
580-53787-1	BG-1-23	580-53787-5	8260C	Acrolein	ND	ug/Kg		UJ	5BL
580-53787-1	BG-1-23	580-53787-5	8081B	Aldrin	0.12	ug/Kg	J H	NJ	1,3,9,10L,13L
580-53787-1	BG-1-23	580-53787-5	8081B	alpha-BHC	0.054	ug/Kg	J H	J	1,9,10L,13L
580-53787-1	BG-1-23	580-53787-5	8081B	alpha-Chlordane	0.065	ug/Kg	J H	NJ	1,3,9,10L,13L
580-53787-1	BG-1-23	580-53787-5	8270D	Benzo[g,h,i]perylene	ND	ug/Kg	F1	UJ	8L
580-53787-1	BG-1-23	580-53787-5	8081B	beta-BHC	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-1-23	580-53787-5	8270D	Bis(2-ethylhexyl) phthalate	22	ug/Kg	J B	U	7
580-53787-1	BG-1-23	580-53787-5	8081B	Chlordane (technical)	1.4	ug/Kg	H	J	1,3,13L
580-53787-1	BG-1-23	580-53787-5	8081B	cis-Nonachlor	NC	ug/Kg	H	R	14
580-53787-1	BG-1-23	580-53787-5	8081B	delta-BHC	0.068	ug/Kg	J H	NJ	1,3,9,13L
580-53787-1	BG-1-23	580-53787-5	8081B	Dieldrin	2.3	ug/Kg	H	NJ	1,3,9,10L,13L
580-53787-1	BG-1-23	580-53787-5	8270D	Diethyl phthalate	12	ug/Kg	J B	U	7
580-53787-1	BG-1-23	580-53787-5	8270D	Di-n-butyl phthalate	11	ug/Kg	J B	U	7
580-53787-1	BG-1-23	580-53787-5	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-1-23	580-53787-5	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-1-23	580-53787-5	8081B	Endosulfan sulfate	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-1-23	580-53787-5	8081B	Endrin	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-1-23	580-53787-5	8081B	Endrin aldehyde	0.81	ug/Kg	H	J	1,9,10L,13L
580-53787-1	BG-1-23	580-53787-5	8081B	Endrin ketone	0.095	ug/Kg	J H	UJ	1,7,10L,13L
580-53787-1	BG-1-23	580-53787-5	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-1-23	580-53787-5	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1,10L,13L

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	BG-1-23	580-53787-5	NWTPH-Gx	Gasoline	1.3	mg/Kg	J B	U	7
580-53787-1	BG-1-23	580-53787-5	8081B	Heptachlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-1-23	580-53787-5	8081B	Heptachlor epoxide	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-1-23	580-53787-5	8270D	Indeno[1,2,3-cd]pyrene	ND	ug/Kg	F1	UJ	8L
580-53787-1	BG-1-23	580-53787-5	8081B	Methoxychlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-1-23	580-53787-5	8081B	oxy-Chlordane	NC	ug/Kg	H	R	14
580-53787-1	BG-1-23	580-53787-5	D 2216	Percent Moisture	26	%		J	1
580-53787-1	BG-1-23	580-53787-5	D 2216	Percent Solids	74	%		J	1
580-53787-1	BG-1-23	580-53787-5	8081B	Toxaphene	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-1-23	580-53787-5	8081B	trans-Nonachlor	NC	ug/Kg	H	R	14
580-53787-1	BG-1-23	580-53787-5	8260C	Vinyl chloride	ND	ug/Kg	*	UJ	10L
580-53787-1	MW-1-2.5	580-53787-6	8081B	2,4'-DDD	1.1	ug/Kg	H	J	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	2,4'-DDT	1.2	ug/Kg	H	J	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	4,4'-DDD	1.8	ug/Kg	H	J	1,9,3
580-53787-1	MW-1-2.5	580-53787-6	8081B	4,4'-DDE	4.0	ug/Kg	H	J	1,9
580-53787-1	MW-1-2.5	580-53787-6	8081B	4,4'-DDT	4.8	ug/Kg	H	J	1,9,10L
580-53787-1	MW-1-2.5	580-53787-6	8260C	Acrolein	ND	ug/Kg		UJ	5BL
580-53787-1	MW-1-2.5	580-53787-6	8081B	Aldrin	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	MW-1-2.5	580-53787-6	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	8081B	beta-BHC	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	8270D	Bis(2-ethylhexyl) phthalate	76	ug/Kg	J B	U	7
580-53787-1	MW-1-2.5	580-53787-6	8081B	Chlordane (technical)	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	delta-BHC	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	Dieldrin	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	8270D	Diethyl phthalate	71	ug/Kg	J B	U	7
580-53787-1	MW-1-2.5	580-53787-6	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	8081B	Endosulfan sulfate	ND	ug/Kg	H	UJ	1,10L

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	MW-1-2.5	580-53787-6	8081B	Endrin	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	8081B	Endrin ketone	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	NWTPH-Gx	Gasoline	1.1	mg/Kg	J B	U	7
580-53787-1	MW-1-2.5	580-53787-6	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	Heptachlor epoxide	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	Methoxychlor	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1,10L
580-53787-1	MW-1-2.5	580-53787-6	D 2216	Percent Moisture	13	%		J	1
580-53787-1	MW-1-2.5	580-53787-6	D 2216	Percent Solids	87	%		J	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2.5	580-53787-6	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53787-1	MW-1-2.5	580-53787-6	8260C	Vinyl chloride	ND	ug/Kg	*	UJ	10L
580-53787-1	BG-2-3	580-53787-7	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	4,4'-DDT	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8260C	Acrolein	ND	ug/Kg		UJ	5BL
580-53787-1	BG-2-3	580-53787-7	8081B	Aldrin	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8081B	beta-BHC	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8270D	Bis(2-ethylhexyl) phthalate	32	ug/Kg	J B	U	7
580-53787-1	BG-2-3	580-53787-7	8081B	Chlordane (technical)	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	delta-BHC	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	Dieldrin	ND	ug/Kg	H	UJ	1,10L,13L

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	BG-2-3	580-53787-7	8270D	Diethyl phthalate	50	ug/Kg	J B	U	7
580-53787-1	BG-2-3	580-53787-7	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8081B	Endosulfan sulfate	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8081B	Endrin	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8081B	Endrin ketone	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	NWTPH-Gx	Gasoline	1.9	mg/Kg	J B	U	7
580-53787-1	BG-2-3	580-53787-7	8081B	Heptachlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	Heptachlor epoxide	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	Methoxychlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1,10L,13L
580-53787-1	BG-2-3	580-53787-7	8082A	PCB-1254	9.0	ug/Kg		J	3
580-53787-1	BG-2-3	580-53787-7	D 2216	Percent Moisture	18	%		J	1
580-53787-1	BG-2-3	580-53787-7	D 2216	Percent Solids	82	%		J	1
580-53787-1	BG-2-3	580-53787-7	8082A	Polychlorinated biphenyls, Total	9.0	ug/Kg		J	3
580-53787-1	BG-2-3	580-53787-7	8081B	Toxaphene	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1,13L
580-53787-1	BG-2-3	580-53787-7	8260C	Vinyl chloride	ND	ug/Kg	*	UJ	10L
580-53787-1	MW-1-22-A	580-53787-9	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	1,1,1-Trichloroethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	1,1,2-Trichloroethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	1,1-Dichloroethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	1,2,3-Trichloropropane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	1,2-Dibromoethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	1,2-Dichloroethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	1,2-Dichloropropane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	2-Butanone	ND	ug/Kg		UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	MW-1-22-A	580-53787-9	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	2-Hexanone	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	4-Methyl-2-pentanone	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Acetone	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Acrolein	ND	ug/Kg		UJ	1,5BL
580-53787-1	MW-1-22-A	580-53787-9	8260C	Acrylonitrile	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Benzene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Bromochloromethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Bromodichloromethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Bromoform	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Bromomethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Carbon disulfide	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Carbon tetrachloride	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Chlorobenzene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Chlorodibromomethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Chloroethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Chloroform	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Chloromethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	cis-1,2-Dichloroethene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	cis-1,3-Dichloropropene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Dibromomethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Dichlorodifluoromethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8270D	Diethyl phthalate	48	ug/Kg	J B	U	7
580-53787-1	MW-1-22-A	580-53787-9	8260C	Ethylbenzene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	NWTPH-Gx	Gasoline	ND	mg/Kg	H	UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Iodomethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Isopropylbenzene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Methyl tert-butyl ether	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Methylene Chloride	34	ug/Kg		J	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	m-Xylene & p-Xylene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	o-Xylene	ND	ug/Kg		UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53787-1	MW-1-22-A	580-53787-9	8082A	PCB-1254	26	ug/Kg		NJ	3
580-53787-1	MW-1-22-A	580-53787-9	D 2216	Percent Moisture	27	%		J	1
580-53787-1	MW-1-22-A	580-53787-9	D 2216	Percent Solids	73	%		J	1
580-53787-1	MW-1-22-A	580-53787-9	8082A	Polychlorinated biphenyls, Total	26	ug/Kg		NJ	3
580-53787-1	MW-1-22-A	580-53787-9	8260C	Styrene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	t-Butylbenzene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Tetrachloroethene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Toluene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	trans-1,2-Dichloroethene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	trans-1,3-Dichloropropene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Trichloroethene	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Trichlorofluoromethane	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Vinyl acetate	ND	ug/Kg		UJ	1
580-53787-1	MW-1-22-A	580-53787-9	8260C	Vinyl chloride	ND	ug/Kg		UJ	1
580-53837-1	BG-2-24	580-53837-1	NWTPH-Dx	#2 Diesel (C10-C24)	7.8	mg/Kg	J B	U	7
580-53837-1	BG-2-24	580-53837-1	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	4,4'-DDD	ND	ug/Kg	H F1	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	4,4'-DDE	ND	ug/Kg	H F1	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	4,4'-DDT	ND	ug/Kg	H F1 *	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	alpha-Chlordane	ND	ug/Kg	H F1	UJ	1
580-53837-1	BG-2-24	580-53837-1	6020A	Aluminum	29000	mg/Kg		J	16
580-53837-1	BG-2-24	580-53837-1	6020A	Arsenic	13	mg/Kg		J	16
580-53837-1	BG-2-24	580-53837-1	6020A	Barium	290	mg/Kg	F1	J	8L
580-53837-1	BG-2-24	580-53837-1	8081B	beta-BHC	ND	ug/Kg	H * F1	UJ	1
580-53837-1	BG-2-24	580-53837-1	8270D	Bis(2-ethylhexyl) phthalate	47	ug/Kg	J B	U	7
580-53837-1	BG-2-24	580-53837-1	8270D	Butyl benzyl phthalate	17	ug/Kg	J B	U	7

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	BG-2-24	580-53837-1	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53837-1	BG-2-24	580-53837-1	6020A	Chromium	31	mg/Kg	F1	J	8L,16
580-53837-1	BG-2-24	580-53837-1	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53837-1	BG-2-24	580-53837-1	6020A	Copper	51	mg/Kg	F1	J	8L
580-53837-1	BG-2-24	580-53837-1	8081B	delta-BHC	0.19	ug/Kg	H B * F1	UJ	1,7
580-53837-1	BG-2-24	580-53837-1	8081B	Dieldrin	ND	ug/Kg	H F1	UJ	1
580-53837-1	BG-2-24	580-53837-1	8270D	Diethyl phthalate	21	ug/Kg	J B	U	7
580-53837-1	BG-2-24	580-53837-1	8081B	Endosulfan I	ND	ug/Kg	H F1	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	Endosulfan II	0.069	ug/Kg	J H B F1	NJ	1,3,8H
580-53837-1	BG-2-24	580-53837-1	8081B	Endosulfan sulfate	0.33	ug/Kg	H B * F1 F2	J	1,8H, 9,10H
580-53837-1	BG-2-24	580-53837-1	8081B	Endrin	ND	ug/Kg	H F1 *	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	Endrin aldehyde	1.5	ug/Kg	H B	J	1
580-53837-1	BG-2-24	580-53837-1	8081B	Endrin ketone	ND	ug/Kg	H F1 *	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	gamma-BHC (Lindane)	0.045	ug/Kg	J H B F1 *	UJ	1,7
580-53837-1	BG-2-24	580-53837-1	8081B	gamma-Chlordane	ND	ug/Kg	H F1	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	Heptachlor epoxide	0.020	ug/Kg	J H B * F1	J	1,8H
580-53837-1	BG-2-24	580-53837-1	6020A	Magnesium	13000	mg/Kg		J	16
580-53837-1	BG-2-24	580-53837-1	8081B	Methoxychlor	ND	ug/Kg	H * F1 F2	UJ	1
580-53837-1	BG-2-24	580-53837-1	6020A	Nickel	41	mg/Kg	F1	J	16
580-53837-1	BG-2-24	580-53837-1	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	BG-2-24	580-53837-1	D 2216	Percent Moisture	28	%		J	1
580-53837-1	BG-2-24	580-53837-1	D 2216	Percent Solids	72	%		J	1
580-53837-1	BG-2-24	580-53837-1	9045C	pH	7.47	SU		J	1
580-53837-1	BG-2-24	580-53837-1	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53837-1	BG-2-24	580-53837-1	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53837-1	BG-2-24	580-53837-1	6020A	Zinc	150	mg/Kg	F1	J	16
580-53837-1	MW-2-8-A	580-53837-12	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	1,1,1-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	1,1,2-Trichloroethane	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	MW-2-8-A	580-53837-12	8260C	1,1-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	1,2,3-Trichloropropane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	1,2-Dibromoethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	1,2-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	1,2-Dichloropropane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	2-Butanone	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	2-Hexanone	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8081B	4,4'-DDD	0.099	ug/Kg	J B	U	7
580-53837-1	MW-2-8-A	580-53837-12	8081B	4,4'-DDE	0.035	ug/Kg	J	J	3
580-53837-1	MW-2-8-A	580-53837-12	8260C	4-Methyl-2-pentanone	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Acetone	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Acrolein	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Acrylonitrile	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8081B	alpha-Chlordane	0.055	ug/Kg	J	NJ	3
580-53837-1	MW-2-8-A	580-53837-12	6020A	Aluminum	22000	mg/Kg		J	16
580-53837-1	MW-2-8-A	580-53837-12	6020A	Arsenic	8.1	mg/Kg		J	16
580-53837-1	MW-2-8-A	580-53837-12	6020A	Barium	150	mg/Kg		J	8L
580-53837-1	MW-2-8-A	580-53837-12	8260C	Benzene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8270D	Bis(2-ethylhexyl) phthalate	100	ug/Kg	J B	U	7
580-53837-1	MW-2-8-A	580-53837-12	8260C	Bromochloromethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Bromodichloromethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Bromoform	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Bromomethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Carbon disulfide	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Carbon tetrachloride	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8081B	Chlordane (technical)	ND	ug/Kg		UJ	5BL
580-53837-1	MW-2-8-A	580-53837-12	8260C	Chlorobenzene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Chlorodibromomethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Chloroethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Chloroform	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	MW-2-8-A	580-53837-12	8260C	Chloromethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	6020A	Chromium	25	mg/Kg		J	8L,16
580-53837-1	MW-2-8-A	580-53837-12	8260C	cis-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	cis-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	6020A	Copper	23	mg/Kg		J	8L
580-53837-1	MW-2-8-A	580-53837-12	8260C	Dibromomethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Dichlorodifluoromethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8270D	Diethyl phthalate	120	ug/Kg	J B	U	7
580-53837-1	MW-2-8-A	580-53837-12	8081B	Endrin ketone	0.29	ug/Kg	B	U	7
580-53837-1	MW-2-8-A	580-53837-12	8260C	Ethylbenzene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8081B	gamma-BHC (Lindane)	0.0097	ug/Kg	J B	U	7
580-53837-1	MW-2-8-A	580-53837-12	8081B	Heptachlor epoxide	0.015	ug/Kg	J	NJ	3
580-53837-1	MW-2-8-A	580-53837-12	8260C	Iodomethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Isopropylbenzene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	6020A	Magnesium	6000	mg/Kg		J	16
580-53837-1	MW-2-8-A	580-53837-12	8081B	Methoxychlor	0.12	ug/Kg	J	NJ	3
580-53837-1	MW-2-8-A	580-53837-12	8260C	Methyl tert-butyl ether	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Methylene Chloride	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	m-Xylene & p-Xylene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	6020A	Nickel	19	mg/Kg		J	16
580-53837-1	MW-2-8-A	580-53837-12	8260C	o-Xylene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	D 2216	Percent Moisture	24	%		J	1
580-53837-1	MW-2-8-A	580-53837-12	D 2216	Percent Solids	76	%		J	1
580-53837-1	MW-2-8-A	580-53837-12	9045C	pH	6.92	SU		J	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Styrene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	t-Butylbenzene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Tetrachloroethene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Toluene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8081B	Toxaphene	ND	ug/Kg		UJ	5BL
580-53837-1	MW-2-8-A	580-53837-12	8260C	trans-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	trans-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	MW-2-8-A	580-53837-12	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Trichloroethene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Trichlorofluoromethane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Vinyl acetate	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	8260C	Vinyl chloride	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-8-A	580-53837-12	6020A	Zinc	73	mg/Kg		J	16
580-53837-1	MW-6-3.5	580-53837-2	NWTPH-Dx	#2 Diesel (C10-C24)	9.0	mg/Kg	J B	U	7
580-53837-1	MW-6-3.5	580-53837-2	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	4,4'-DDT	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	6020A	Aluminum	21000	mg/Kg		J	16
580-53837-1	MW-6-3.5	580-53837-2	6020A	Arsenic	12	mg/Kg		J	16
580-53837-1	MW-6-3.5	580-53837-2	6020A	Barium	270	mg/Kg		J	8L
580-53837-1	MW-6-3.5	580-53837-2	8081B	beta-BHC	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8270D	Bis(2-ethylhexyl) phthalate	47	ug/Kg	J B	U	7
580-53837-1	MW-6-3.5	580-53837-2	8270D	Butyl benzyl phthalate	28	ug/Kg	B	U	7
580-53837-1	MW-6-3.5	580-53837-2	8081B	Chlordane (technical)	NC	ug/Kg	H B *	R	14
580-53837-1	MW-6-3.5	580-53837-2	6020A	Chromium	21	mg/Kg		J	8L,16
580-53837-1	MW-6-3.5	580-53837-2	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	6020A	Copper	29	mg/Kg		J	8L
580-53837-1	MW-6-3.5	580-53837-2	8081B	delta-BHC	0.49	ug/Kg	J H B *	UJ	1,7
580-53837-1	MW-6-3.5	580-53837-2	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8270D	Diethyl phthalate	20	ug/Kg	J B	U	7
580-53837-1	MW-6-3.5	580-53837-2	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	Endosulfan II	0.11	ug/Kg	J H B	J	1,3,13H

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	MW-6-3.5	580-53837-2	8081B	Endosulfan sulfate	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	Endrin	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	Endrin ketone	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	Heptachlor epoxide	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	6020A	Magnesium	6300	mg/Kg		J	16
580-53837-1	MW-6-3.5	580-53837-2	8081B	Methoxychlor	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	6020A	Nickel	21	mg/Kg		J	16
580-53837-1	MW-6-3.5	580-53837-2	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	D 2216	Percent Moisture	20	%		J	1
580-53837-1	MW-6-3.5	580-53837-2	D 2216	Percent Solids	80	%		J	1
580-53837-1	MW-6-3.5	580-53837-2	9045C	pH	7.10	SU		J	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-3.5	580-53837-2	6020A	Zinc	81	mg/Kg		J	16
580-53837-1	MW-6-24.2	580-53837-3	NWTPH-Dx	#2 Diesel (C10-C24)	8.3	mg/Kg	J B	U	7
580-53837-1	MW-6-24.2	580-53837-3	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	4,4'-DDT	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	6020A	Aluminum	11000	mg/Kg		J	16
580-53837-1	MW-6-24.2	580-53837-3	6020A	Antimony	0.17	mg/Kg		U	7
580-53837-1	MW-6-24.2	580-53837-3	6020A	Arsenic	3.8	mg/Kg		J	16

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	MW-6-24.2	580-53837-3	6020A	Barium	86	mg/Kg		J	8L
580-53837-1	MW-6-24.2	580-53837-3	8081B	beta-BHC	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8270D	Bis(2-ethylhexyl) phthalate	35	ug/Kg	J B	U	7
580-53837-1	MW-6-24.2	580-53837-3	8270D	Butyl benzyl phthalate	13	ug/Kg	J B	U	7
580-53837-1	MW-6-24.2	580-53837-3	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	6020A	Chromium	19	mg/Kg		J	8L,16
580-53837-1	MW-6-24.2	580-53837-3	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	6020A	Copper	20	mg/Kg		J	8L
580-53837-1	MW-6-24.2	580-53837-3	8081B	delta-BHC	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8270D	Diethyl phthalate	16	ug/Kg	J B	U	7
580-53837-1	MW-6-24.2	580-53837-3	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	Endosulfan sulfate	0.079	ug/Kg	J H B *	NJ	1,3,10H,13H
580-53837-1	MW-6-24.2	580-53837-3	8081B	Endrin	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	Endrin aldehyde	0.83	ug/Kg	H B	J	1,3,13H
580-53837-1	MW-6-24.2	580-53837-3	8081B	Endrin ketone	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	Heptachlor epoxide	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	6020A	Magnesium	7600	mg/Kg		J	16
580-53837-1	MW-6-24.2	580-53837-3	8081B	Methoxychlor	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	6020A	Nickel	36	mg/Kg		J	16
580-53837-1	MW-6-24.2	580-53837-3	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	D 2216	Percent Moisture	9.7	%		J	1
580-53837-1	MW-6-24.2	580-53837-3	D 2216	Percent Solids	90	%		J	1
580-53837-1	MW-6-24.2	580-53837-3	9045C	pH	7.47	SU		J	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-6-24.2	580-53837-3	6020A	Zinc	50	mg/Kg		J	16

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	MW-2-2	580-53837-4	NWTPH-Dx	#2 Diesel (C10-C24)	15	mg/Kg	J B	U	7
580-53837-1	MW-2-2	580-53837-4	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	4,4'-DDT	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	6020A	Aluminum	28000	mg/Kg		J	16
580-53837-1	MW-2-2	580-53837-4	6020A	Arsenic	9.0	mg/Kg		J	16
580-53837-1	MW-2-2	580-53837-4	6020A	Barium	150	mg/Kg		J	8L
580-53837-1	MW-2-2	580-53837-4	8081B	beta-BHC	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-2-2	580-53837-4	8270D	Bis(2-ethylhexyl) phthalate	57	ug/Kg	J B	U	7
580-53837-1	MW-2-2	580-53837-4	8270D	Butyl benzyl phthalate	17	ug/Kg	J B	U	7
580-53837-1	MW-2-2	580-53837-4	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-2-2	580-53837-4	6020A	Chromium	22	mg/Kg		J	8L,16
580-53837-1	MW-2-2	580-53837-4	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	6020A	Copper	26	mg/Kg		J	8L
580-53837-1	MW-2-2	580-53837-4	8081B	delta-BHC	0.27	ug/Kg	J H B *	UJ	1,7,13H
580-53837-1	MW-2-2	580-53837-4	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8270D	Diethyl phthalate	20	ug/Kg	J B	U	7
580-53837-1	MW-2-2	580-53837-4	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	Endosulfan sulfate	0.23	ug/Kg	J H B *	NJ	1,3,10H,13H
580-53837-1	MW-2-2	580-53837-4	8081B	Endrin	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	Endrin ketone	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	MW-2-2	580-53837-4	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	Heptachlor epoxide	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-2-2	580-53837-4	6020A	Magnesium	6100	mg/Kg		J	16
580-53837-1	MW-2-2	580-53837-4	8081B	Methoxychlor	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-2-2	580-53837-4	6020A	Nickel	18	mg/Kg		J	16
580-53837-1	MW-2-2	580-53837-4	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	9045C	pH	6.33	SU		J	1
580-53837-1	MW-2-2	580-53837-4	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-2-2	580-53837-4	6020A	Zinc	72	mg/Kg		J	16
580-53837-1	MW-4-4	580-53837-6	NWTPH-Dx	#2 Diesel (C10-C24)	8.1	mg/Kg	J B	U	7
580-53837-1	MW-4-4	580-53837-6	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	1,1,1-Trichloroethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	1,1,2-Trichloroethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	1,1-Dichloroethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	1,2,3-Trichloropropane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	1,2-Dibromoethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	1,2-Dichloroethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	1,2-Dichloropropane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	2-Butanone	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	2-Hexanone	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	4,4'-DDT	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	4-Methyl-2-pentanone	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Acetone	ND	ug/Kg		UJ	1

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	MW-4-4	580-53837-6	8260C	Acrolein	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Acrylonitrile	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	6020A	Aluminum	18000	mg/Kg		J	16
580-53837-1	MW-4-4	580-53837-6	6020A	Arsenic	6.5	mg/Kg		J	16
580-53837-1	MW-4-4	580-53837-6	6020A	Barium	150	mg/Kg		J	8L
580-53837-1	MW-4-4	580-53837-6	8260C	Benzene	19	ug/Kg	J B	UJ	1,7
580-53837-1	MW-4-4	580-53837-6	8081B	beta-BHC	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-4-4	580-53837-6	8270D	Bis(2-ethylhexyl) phthalate	49	ug/Kg	J B	U	7
580-53837-1	MW-4-4	580-53837-6	8260C	Bromochloromethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Bromodichloromethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Bromoform	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Bromomethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8270D	Butyl benzyl phthalate	23	ug/Kg	J B	U	7
580-53837-1	MW-4-4	580-53837-6	8260C	Carbon disulfide	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Carbon tetrachloride	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Chlorobenzene	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Chlorodibromomethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Chloroethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Chloroform	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Chloromethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	6020A	Chromium	22	mg/Kg		J	8L,16
580-53837-1	MW-4-4	580-53837-6	8260C	cis-1,2-Dichloroethene	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	cis-1,3-Dichloropropene	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	6020A	Copper	25	mg/Kg		J	8L
580-53837-1	MW-4-4	580-53837-6	8081B	delta-BHC	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Dibromomethane	ND	ug/Kg		UJ	1

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	MW-4-4	580-53837-6	8260C	Dichlorodifluoromethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8270D	Diethyl phthalate	18	ug/Kg	J B	U	7
580-53837-1	MW-4-4	580-53837-6	8081B	Endosulfan I	0.062	ug/Kg	J H B	J	1,3,13H
580-53837-1	MW-4-4	580-53837-6	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	Endosulfan sulfate	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	Endrin	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	Endrin aldehyde	0.85	ug/Kg	H B	J	1,13H
580-53837-1	MW-4-4	580-53837-6	8081B	Endrin ketone	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Ethylbenzene	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	Heptachlor epoxide	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Iodomethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Isopropylbenzene	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	6020A	Magnesium	6000	mg/Kg		J	16
580-53837-1	MW-4-4	580-53837-6	8081B	Methoxychlor	ND	ug/Kg	H *	UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Methyl tert-butyl ether	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Methylene Chloride	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	m-Xylene & p-Xylene	12	ug/Kg	J	J	1
580-53837-1	MW-4-4	580-53837-6	6020A	Nickel	20	mg/Kg		J	16
580-53837-1	MW-4-4	580-53837-6	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	o-Xylene	9.1	ug/Kg	J B	UJ	1,7
580-53837-1	MW-4-4	580-53837-6	9045C	pH	7.28	SU		J	1
580-53837-1	MW-4-4	580-53837-6	8260C	Styrene	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	t-Butylbenzene	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Tetrachloroethene	37	ug/Kg	B	UJ	1,7
580-53837-1	MW-4-4	580-53837-6	8260C	Toluene	14	ug/Kg	J B	UJ	1,7
580-53837-1	MW-4-4	580-53837-6	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	trans-1,2-Dichloroethene	ND	ug/Kg		UJ	1

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53837-1	MW-4-4	580-53837-6	8260C	trans-1,3-Dichloropropene	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Trichloroethene	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Trichlorofluoromethane	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Vinyl acetate	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	8260C	Vinyl chloride	ND	ug/Kg		UJ	1
580-53837-1	MW-4-4	580-53837-6	6020A	Zinc	72	mg/Kg		J	16
580-53840-1	MW-4-24	580-53840-1	NWTPH-Dx	#2 Diesel (C10-C24)	5.9	mg/Kg	J B	U	7
580-53840-1	MW-4-24	580-53840-1	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	4,4'-DDT	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-4-24	580-53840-1	8270D	Acenaphthene	ND	ug/Kg	F1	UJ	8L
580-53840-1	MW-4-24	580-53840-1	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8270D	Benzo[g,h,i]perylene	ND	ug/Kg	F1	UJ	8L
580-53840-1	MW-4-24	580-53840-1	8081B	beta-BHC	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-4-24	580-53840-1	8270D	Bis(2-ethylhexyl) phthalate	40	ug/Kg	J B	U	7
580-53840-1	MW-4-24	580-53840-1	8270D	Butyl benzyl phthalate	19	ug/Kg	J B	U	7
580-53840-1	MW-4-24	580-53840-1	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-4-24	580-53840-1	8270D	Chrysene	ND	ug/Kg	F1	UJ	8L
580-53840-1	MW-4-24	580-53840-1	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	delta-BHC	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-4-24	580-53840-1	8270D	Dibenz(a,h)anthracene	ND	ug/Kg	F1	UJ	8L
580-53840-1	MW-4-24	580-53840-1	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8270D	Diethyl phthalate	15	ug/Kg	J F1 B	U	7
580-53840-1	MW-4-24	580-53840-1	8270D	Dimethyl phthalate	ND	ug/Kg	F1	UJ	8L

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53840-1	MW-4-24	580-53840-1	8270D	Di-n-octyl phthalate	14	ug/Kg	J F1	J	8H
580-53840-1	MW-4-24	580-53840-1	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	Endosulfan sulfate	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	Endrin	0.11	ug/Kg	J H B *	UJ	1,7
580-53840-1	MW-4-24	580-53840-1	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	Endrin ketone	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	Heptachlor	0.38	ug/Kg	J H B	UJ	1,7
580-53840-1	MW-4-24	580-53840-1	8081B	Heptachlor epoxide	0.015	ug/Kg	J H B *	NJ	1,3,13H
580-53840-1	MW-4-24	580-53840-1	8270D	Indeno[1,2,3-cd]pyrene	ND	ug/Kg	F1	UJ	8L
580-53840-1	MW-4-24	580-53840-1	8081B	Methoxychlor	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-4-24	580-53840-1	8260C	Methylene Chloride	ND	ug/Kg	H	DNR	11
580-53840-1	MW-4-24	580-53840-1	8260C	Methylene Chloride	68	ug/Kg	B	U	7
580-53840-1	MW-4-24	580-53840-1	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	9045C	pH	7.17	SU		J	1
580-53840-1	MW-4-24	580-53840-1	8270D	Phenanthrene	ND	ug/Kg	F1	UJ	8L
580-53840-1	MW-4-24	580-53840-1	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-4-24	580-53840-1	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	NWTPH-Dx	#2 Diesel (C10-C24)	12	mg/Kg	J B	U	7
580-53840-1	MW-8-4	580-53840-2	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	4,4'-DDT	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	beta-BHC	ND	ug/Kg	H *	UJ	1

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53840-1	MW-8-4	580-53840-2	8270D	Bis(2-ethylhexyl) phthalate	45	ug/Kg	J B	U	7
580-53840-1	MW-8-4	580-53840-2	8270D	Butyl benzyl phthalate	12	ug/Kg	J B	U	7
580-53840-1	MW-8-4	580-53840-2	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	delta-BHC	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8270D	Diethyl phthalate	17	ug/Kg	J B	U	7
580-53840-1	MW-8-4	580-53840-2	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	Endosulfan sulfate	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	Endrin	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	Endrin ketone	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	Heptachlor epoxide	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	Methoxychlor	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-4	580-53840-2	8260C	Methylene Chloride	74	ug/Kg	B	U	7
580-53840-1	MW-8-4	580-53840-2	8260C	Methylene Chloride	ND	ug/Kg	H	DNR	11
580-53840-1	MW-8-4	580-53840-2	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	9045C	pH	6.58	SU		J	1
580-53840-1	MW-8-4	580-53840-2	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-4	580-53840-2	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	NWTPH-Dx	#2 Diesel (C10-C24)	10	mg/Kg	J B	U	7
580-53840-1	MW-8-24	580-53840-3	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	1,1,1-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	1,1,2-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	1,1-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	1,2,3-Trichloropropane	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53840-1	MW-8-24	580-53840-3	8260C	1,2-Dibromoethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	1,2-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	1,2-Dichloropropane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	2-Butanone	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	2-Hexanone	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	4,4'-DDT	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	4-Methyl-2-pentanone	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Acetone	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Acrolein	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Acrylonitrile	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Benzene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	beta-BHC	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-24	580-53840-3	8270D	Bis(2-ethylhexyl) phthalate	45	ug/Kg	J B	U	7
580-53840-1	MW-8-24	580-53840-3	8260C	Bromochloromethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Bromodichloromethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Bromoform	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Bromomethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8270D	Butyl benzyl phthalate	8.2	ug/Kg	J B	U	7
580-53840-1	MW-8-24	580-53840-3	8260C	Carbon disulfide	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Carbon tetrachloride	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Chlorobenzene	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53840-1	MW-8-24	580-53840-3	8260C	Chlorodibromomethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Chloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Chloroform	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Chloromethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	cis-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	cis-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	delta-BHC	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Dibromomethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Dichlorodifluoromethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8270D	Diethyl phthalate	16	ug/Kg	J B	U	7
580-53840-1	MW-8-24	580-53840-3	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Endosulfan sulfate	0.13	ug/Kg	J H B *	NJ	1,3,10H,13H
580-53840-1	MW-8-24	580-53840-3	8081B	Endrin	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Endrin ketone	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Ethylbenzene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Heptachlor epoxide	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Iodomethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Isopropylbenzene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Methoxychlor	ND	ug/Kg	H *	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Methyl tert-butyl ether	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Methylene Chloride	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	m-Xylene & p-Xylene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	o-Xylene	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53840-1	MW-8-24	580-53840-3	9045C	pH	7.10	SU		J	1
580-53840-1	MW-8-24	580-53840-3	8260C	Styrene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	t-Butylbenzene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Tetrachloroethene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Toluene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	trans-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	trans-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Trichloroethene	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Trichlorofluoromethane	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Vinyl acetate	ND	ug/Kg	H	UJ	1
580-53840-1	MW-8-24	580-53840-3	8260C	Vinyl chloride	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	1,1,1,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	1,1,1-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	1,1,2,2-Tetrachloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	1,1,2-Trichloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	1,1-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	1,2,3-Trichloropropane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	1,2-Dibromoethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	1,2-Dichloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	1,2-Dichloropropane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	2-Butanone	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	2-Chloroethyl vinyl ether	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	2-Hexanone	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	4,4'-DDD	6.0	ug/Kg	H B	NJ	1,3,13H
580-53840-1	BG-3-4	580-53840-4	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53840-1	BG-3-4	580-53840-4	8081B	4,4'-DDT	2.7	ug/Kg	H B *	J	1,13H
580-53840-1	BG-3-4	580-53840-4	8260C	4-Methyl-2-pentanone	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Acetone	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Acrolein	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Acrylonitrile	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Benzene	8.1	ug/Kg	J H	J	1
580-53840-1	BG-3-4	580-53840-4	8081B	beta-BHC	48	ug/Kg	H B *	J	1,13H
580-53840-1	BG-3-4	580-53840-4	8270D	Bis(2-ethylhexyl) phthalate	56	ug/Kg	J B	U	7
580-53840-1	BG-3-4	580-53840-4	8260C	Bromochloromethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Bromodichloromethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Bromoform	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Bromomethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8270D	Butyl benzyl phthalate	30	ug/Kg	B	U	7
580-53840-1	BG-3-4	580-53840-4	8260C	Carbon disulfide	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Carbon tetrachloride	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Chlorobenzene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Chlorodibromomethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Chloroethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Chloroform	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Chloromethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	cis-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	cis-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	delta-BHC	17	ug/Kg	H B *	J	1,13H
580-53840-1	BG-3-4	580-53840-4	8260C	Dibromomethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Dichlorodifluoromethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	Dieldrin	0.81	ug/Kg	J H B	NJ	1,3,13H

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53840-1	BG-3-4	580-53840-4	8270D	Diethyl phthalate	15	ug/Kg	J B	U	7
580-53840-1	BG-3-4	580-53840-4	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	Endosulfan sulfate	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	Endrin	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	Endrin ketone	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Ethylbenzene	8.5	ug/Kg	J H	J	1
580-53840-1	BG-3-4	580-53840-4	8081B	gamma-BHC (Lindane)	4.8	ug/Kg	H B *	NJ	1,3,13H
580-53840-1	BG-3-4	580-53840-4	8081B	gamma-Chlordane	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	Heptachlor	26	ug/Kg	H B	J	1,3,13H
580-53840-1	BG-3-4	580-53840-4	8081B	Heptachlor epoxide	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Iodomethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Isopropylbenzene	5.5	ug/Kg	J H	J	1
580-53840-1	BG-3-4	580-53840-4	8081B	Methoxychlor	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Methyl tert-butyl ether	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Methylene Chloride	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	m-Xylene & p-Xylene	18	ug/Kg	J H	J	1
580-53840-1	BG-3-4	580-53840-4	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	o-Xylene	10	ug/Kg	J H	J	1
580-53840-1	BG-3-4	580-53840-4	8082A	PCB-1016	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8082A	PCB-1221	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8082A	PCB-1232	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8082A	PCB-1242	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8082A	PCB-1248	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8082A	PCB-1254	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8082A	PCB-1260	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8082A	PCB-1262	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8082A	PCB-1268	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	9045C	pH	6.80	SU		J	1
580-53840-1	BG-3-4	580-53840-4	8082A	Polychlorinated biphenyls, Total	ND	ug/Kg	H	UJ	1

Qualified Data Summary Table
Oseran Properties

SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53840-1	BG-3-4	580-53840-4	8260C	Styrene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	t-Butylbenzene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Tetrachloroethene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Toluene	39	ug/Kg	J H B	J	1
580-53840-1	BG-3-4	580-53840-4	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	trans-1,2-Dichloroethene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	trans-1,3-Dichloropropene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	trans-1,4-Dichloro-2-butene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Trichloroethene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Trichlorofluoromethane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Vinyl acetate	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-4	580-53840-4	8260C	Vinyl chloride	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	NWTPH-Dx	#2 Diesel (C10-C24)	12	mg/Kg	J B	U	7
580-53840-1	BG-3-22.8	580-53840-5	8081B	2,4'-DDD	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	2,4'-DDE	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	2,4'-DDT	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	4,4'-DDD	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	4,4'-DDE	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	4,4'-DDT	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Aldrin	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	alpha-BHC	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	alpha-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	beta-BHC	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8270D	Bis(2-ethylhexyl) phthalate	52	ug/Kg	J B	U	7
580-53840-1	BG-3-22.8	580-53840-5	8270D	Butyl benzyl phthalate	9.3	ug/Kg	J B	U	7
580-53840-1	BG-3-22.8	580-53840-5	8081B	Chlordane (technical)	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	cis-Nonachlor	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	delta-BHC	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Dieldrin	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8270D	Diethyl phthalate	15	ug/Kg	J B	U	7

Qualified Data Summary Table
Oseran Properties

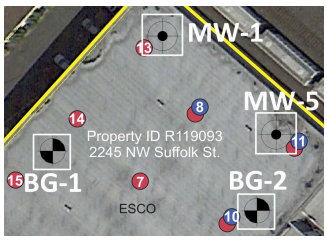
SDG	Sample ID	Laboratory ID	Method	Analyte	Reuslt	Units	Lab Flag	DV Qualifier	DV Reason Code
580-53840-1	BG-3-22.8	580-53840-5	8081B	Endosulfan I	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Endosulfan II	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Endosulfan sulfate	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Endrin	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Endrin aldehyde	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Endrin ketone	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	gamma-BHC (Lindane)	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	gamma-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Heptachlor	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Heptachlor epoxide	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Methoxychlor	ND	ug/Kg	H *	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	oxy-Chlordane	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	9045C	pH	8.01	SU		J	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	Toxaphene	ND	ug/Kg	H	UJ	1
580-53840-1	BG-3-22.8	580-53840-5	8081B	trans-Nonachlor	ND	ug/Kg	H	UJ	1

GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

WELL INSTALLATION LOG

WELL NAME: MW-1

Location Sketch



Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-29-16 / 0915** End Date and Time: **03-29-16 / 1143**
Surface Conditions: **Concrete** Surface Elevation: **~45 ft. asl**
Depth Groundwater: **30-ft. bgs. / 0948** Total Depth: **41-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
0–2		09:15	Stiff SILT w/ some fine sand (FILL)	brown with reddish-brown mottles	dry		Water-tight well plug with padlock; 'Christy'-type traffic and security surface box
2–3			Burn Zone (FILL)	dk. brown	dry - damp	Burnt wood	
3–7			Stiff SILT w/ some sand and gravel and sparse red brick fragments (FILL)	dk. brown	damp	Gravel is rounded	Blank Casing ID 2-inches; Boring OD 6-inches
7–10		09:19	Clayey SILT organic and burn material. Grades into loose fragments of brick (FILL)	dk. brown - dk. red	damp - moist	Charcole, burnt wood, and brick fragments	No centralizer
10–19			Stiff SILT w/ some clay, micaceous	grayish brown	damp	Some grayish-brown mottles	Surface annular seal: Baroid 3/8" Hole Plug Bentonite Pellets (hydrated with water)
19–20			Vr. fine SAND w/	dr. grayish brown	wet		

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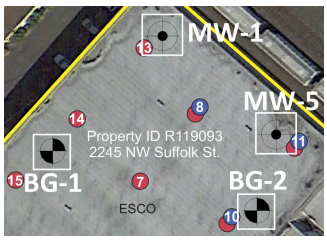
GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

WELL INSTALLATION LOG

WELL NAME: MW-1

Location Sketch



Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-29-16 / 0915** End Date and Time: **03-29-16 / 1143**
Surface Conditions: **Concrete** Surface Elevation: **~45 ft. asl**
Depth Groundwater: **30-ft. bgs. / 0948** Total Depth: **41-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
20–21		09:33	trace clay, micaceous				
21–25			Stiff SILT grades between trace clay and some clay	greenish brown	moist - wet		Schedule 40 PVC
25–30			Dense, rounded to subrounded GRAVEL up to 1.5-inch in size, some sand and fines	vr. dark brown	damp - moist moist - wet		
30		09:48					Screen 30-40 ft. TOC
30–36			Well-graded, rounded to subrounded GRAVEL w/ clayey silt, size from 0.5-3-inch (possibly larger). Gravel size decreases with depth	dk. brown	wet		Granular filter pack kiln dried Premiere Colorado silica sand #10-20 PVC Screen slot size: 0.020-inches
36–40			Loose, med-coarse SAND w/ little to no fines, micaceous	dk. brown	wet		Bottom flush threaded cap: Flat

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GeoPro Environmental Services LLC

PO Box 26
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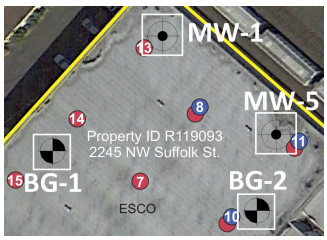
WELL INSTALLATION LOG

WELL NAME: MW-1

Location Sketch



Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2245 NW Suffolk St. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-29-16 / 0915** End Date and Time: **03-29-16 / 1143**
Surface Conditions: **Concrete** Surface Elevation: **~45 ft. asl**
Depth Groundwater: **30-ft. bgs. / 0948** Total Depth: **41-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
40		10:06					Bottom flush threaded cap: Flat cap
41							Overdrill sand backfill 1-ft.

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GeoPro Environmental Services LLC
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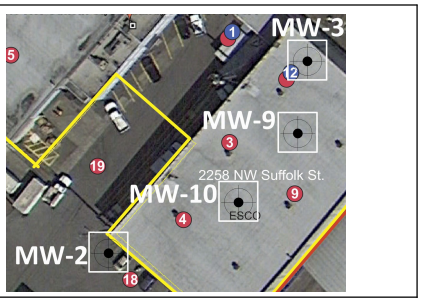
Battle Ground, WA 98604

WELL INSTALLATION LOG

WELL NAME: MW-2

Location Sketch



Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk St. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-29-16 / 12:56** End Date and Time: **03-29-16 / 16:18**
Surface Conditions: **Weathered Asphalt** Surface Elevation: **~46-ft. asl**
Depth Groundwater: **36-ft. bgs. / 14:32** Total Depth: **45-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
0–10		13:20	Weathered asphalt; Stiff - med. stiff SILT w/ trace clay to some clay. Dark reddish-brown mottles in top 2-ft.	dk. brown	damp	First 10-ft., no down pressure from drill rig. Just sank down.	Water-tight well plug with padlock; 'Christy'-type traffic and security surface box; Blank Casing ID 2-inches; Boring OD 6-inches; No centralizer
10–11		13:31	@ 10-ft. some fine sand				
11–12			Burn Zone. Dark organic material	vr. dk. grayish brown	damp	Burnt wood, red mottles or dissolved brick?	
12–20			Fine - coarse SAND, loose, little to no fines, micaceous	dk. brown	moist		Surface annular seal: Baroid 3/8" Hole Plug Bentonite Pellets (hydrated with water); Surface annular seal: Baroid 3/8" Hole Plug Bentonite Pellets (hydrated with water)

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GeoPro Environmental Services LLC
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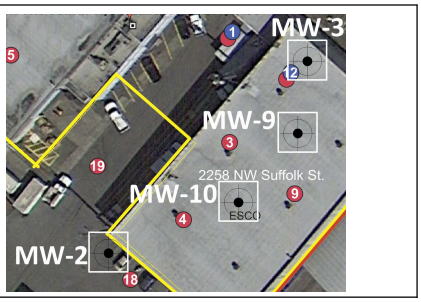
Battle Ground, WA 98604

WELL INSTALLATION LOG

WELL NAME: MW-2

Location Sketch



Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk St. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-29-16 / 12:56** End Date and Time: **03-29-16 / 16:18**
Surface Conditions: **Weathered Asphalt** Surface Elevation: **~46-ft. asl**
Depth Groundwater: **36-ft. bgs. / 14:32** Total Depth: **45-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
20–24		13:48	Stiff - med. stiff SILT w/ trace clay. Grades into SILT w/ some clay, low plasticity	dk. brown	moist-wet		Schedule 40 PVC
24–30		14:08	Well-graded, sandy GRAVEL, rounded to subrounded, up to 3-inches size (potentially larger), size decreases with depth to an average size of 0.5 to 1.0-inch. Sand is coarse with little to no fines.	vr. dk. brown	moist-wet	Approximately 60% core loss due to slump	Screen 34 - 44 ft. TOC
39–40							PVC Screen slot size: 0.020-inches

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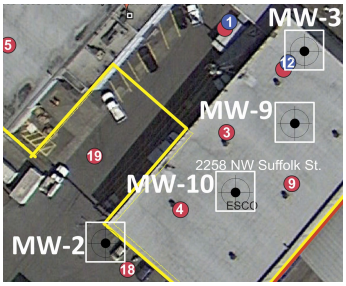
GeoPro Environmental Services LLC

PO Box 26
Battle Ground, WA 98604

WELL INSTALLATION LOG

WELL NAME: MW-2

Location Sketch



Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk St. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-29-16 / 12:56** End Date and Time: **03-29-16 / 16:18**
Surface Conditions: **Weathered Asphalt** Surface Elevation: **~46-ft. asl**
Depth Groundwater: **36-ft. bgs. / 14:32** Total Depth: **45-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
40							
41		14:32					Granular filter pack kiln dried Premiere Colorado silica sand #10-20
42							
43			Fine-coarse SAND with rounded gravel, some fines, rapid dilatency	vr. dk. brown	wet		
44							Bottom flush threaded cap: Flat cap
45							Overdrill sand backfill 1-ft.

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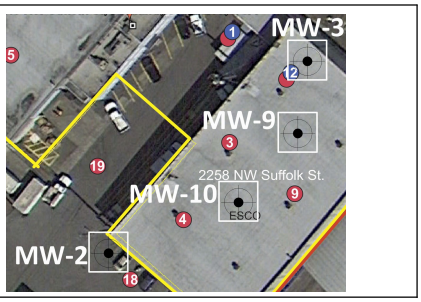
WELL INSTALLATION LOG

WELL NAME: MW-3

Location Sketch



Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk St. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-28-16 / 12:13** End Date and Time: **03-28-16 / 15:57**
Surface Conditions: **Concrete** Surface Elevation: **~42-ft. asl**
Depth Groundwater: **29-ft. bgs. / 13:21** Total Depth: **37-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
0–4		12:13	Fine, rounded gravel and silt	dk. brown	dry		Water-tight well plug with padlock; 'Christy'-type traffic and security surface box
4–5.5			Burn Zone - black organic material	vr. dark brown	dry		Blank Casing ID 2-inches
5.5–9			Stiff, clayey-SILT w/ mottles	grayish brown	dry		Boring OD 6-inches; No centralizer
9–15		12:25	Stiff, clayey-SILT w/ increased mottles, low plasticity	brown	dry	some reddish-brown mottles	Surface annular seal: Baroid 3/8" Hole Plug Bentonite Pellets (hydrated with water)
15–20			Stiff, SILT w/ trace clay, plastic	grayish	moist -		Schedule 40 PVC

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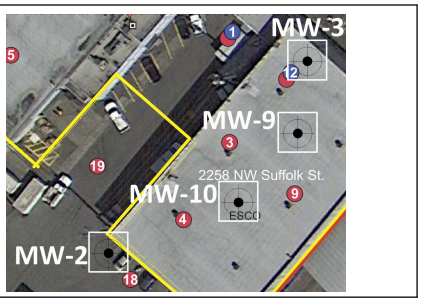
GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

WELL INSTALLATION LOG

WELL NAME: MW-3

Location Sketch



Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2258 NW Suffolk St. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-28-16 / 12:13** End Date and Time: **03-28-16 / 15:57**
Surface Conditions: **Concrete** Surface Elevation: **~42-ft. asl**
Depth Groundwater: **29-ft. bgs. / 13:21** Total Depth: **37-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
20–40		12:40		brown	wet		
25			Fine silty-SAND, micaceous	dk. grayish brown	dry		Screen 26 - 36 ft. TOC
26–30			Well-graded, sandy GRAVEL, rounded to subgrounded, size up to 5-inch and possibly larger		moist		Granular filter pack kiln dried Premiere Colorado silica sand #10-20
29					▽		
30		12:55					
31–35				dk. brown	wet		PVC Screen slot size: 0.020-inches
36			Poorly-graded, fine-med SAND, micaceous	vr. dark brown	moist - wet		Bottom flush threaded cap: Flat cap
37							Overdrill sand backfill 1-ft.
38–40							

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GeoPro Environmental Services LLC

PO Box 26
Battle Ground, WA 98604

WELL INSTALLATION LOG

WELL NAME: MW-7

Location Sketch

Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2740 NW 22nd Pl. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-28-16 / 18:20** End Date and Time: **03-28-16 / 20:49**
Surface Conditions: **Concrete** Surface Elevation: **~42.5-ft. asl**
Depth Groundwater: **29-ft. bgs. / 19:00** Total Depth: **40.5-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
0–1		18:20	Well-graded SILT w/ gravel		damp		Water-tight well plug with padlock
1–4			Burn Zone with dark organic material and clay, med. plasticity	vr. dk. gray	damp	Burnt wood fragments, mottled or dissolved brick?	'Christy'-type traffic and security surface box
4–10			Very stiff SILT	grayish-brown	damp		Blank Casing ID 2-inches
10–20		18:26	Med. stiff SILT w/ trace clay to some clay	dk. grayish-brown	damp - moist	Red and gray	Boring OD 6-inches
							No centralizer
							Surface annular seal: Baroid 3/8" Hole Plug Bentonite Pellets (hydrated with water)
							Schedule 40 PVC

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Battle Ground, WA 98604

WELL INSTALLATION LOG

WELL NAME: MW-7

Location Sketch

Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2740 NW 22nd Pl. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-28-16 / 18:20** End Date and Time: **03-28-16 / 20:49**
Surface Conditions: **Concrete** Surface Elevation: **~42.5-ft. asl**
Depth Groundwater: **29-ft. bgs. / 19:00** Total Depth: **40.5-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
20–23		18:46				mottles	
23–26			Very fine sandy SILT, saturated	dk. brown	moist - wet		
26–28			Vr. fine SAND	dk. brown	moist - wet		
28–30		19:00	Sandy GRAVEL w/ trace to no fines. Gravel 1-inch size, rounded.	dk. brown	wet	Sandy gravel is very soft, kept caving in and hard to recover sample	Screen 29.5 - 39.5 ft. TOC Granular filter pack kiln dried Premiere Colorado silica sand #10-20 PVC Screen slot size: 0.020-inches Bottom flush threaded cap: Flat cap
30–40							

This geologic log and related information depict subsurface conditions only at a specific location and time. Geologic conditions at other locations may differ from conditions encountered and described in this log. The passage of time may result in a change in geologic and hydrogeologic conditions and engineering properties at this location.

GeoPro Environmental Services LLC
PO Box 26
Battle Ground, WA 98604

WELL INSTALLATION LOG

WELL NAME: MW-7

Location Sketch

Project No.: **160326** Project Name: **Oseran Properties**
Project Location: **2740 NW 22nd Pl. Portland, OR** Sec-Tws-Rng
Client: **Henry P. Oseran & Associates**

Drilling Co.: **Holt Services, Inc.** Driller: **Pete**
Drilling Method and Rig Model: **Terrasonic CC1185**
Sampling Method(s): **Grab**

Start Date and Time: **03-28-16 / 18:20** End Date and Time: **03-28-16 / 20:49**
Surface Conditions: **Concrete** Surface Elevation: **~42.5-ft. asl**
Depth Groundwater: **29-ft. bgs. / 19:00** Total Depth: **40.5-ft. bgs**
Registered Geologist: **R.Kent (GeoPro)** Logged By: **M. Masterson (GeoPro)**

DEPTH (FT)	GRAPHIC	TIME	NAME	COLOR	MOISTURE	REMARKS	WELL DESCRIPTION
40		19:18					Overdrill sand backfill 1-ft. 40

This geologic log and related information depict subsurface conditions only at a specific location and time. Geologic conditions at other locations may differ from conditions encountered and described in this log. The passage of time may result in a change in geologic and hydrogeologic conditions and engineering properties at this location.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-59770-1
Client Project/Site: Oseran (OR)

For:
GeoPro LLC
PO BOX 26
Battle Ground, Washington 98604

Attn: Richard Kent

Authorized for release by:
6/9/2016 12:51:35 PM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 580-59770-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-59770-1

Receipt
The samples were received on 5/23/2016 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 4.2º C, 4.8º C and 5.1º C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA
Method(s) 8260C: The method blank for analytical batch 580-218024 contained Bromoform above the method detection limit. This target analyte concentration was less than 1/2 the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-218024 recovered outside acceptance criteria, low biased, for 2-Methyl-2-propanol, Acrylonitrile and 2-Butanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: Surrogate recovery of 1,2-Dichloroethane-d4 and Dibromofluoromethane for the following sample was outside control limits: MW-7-052016 (580-59770-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) NWTPH-Gx: Surrogate recovery for the following samples was outside the upper control limit: MW-3-052016-D (580-59770-3) and MW-2-052016 (580-59770-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-218423 was outside criteria for N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) NWTPH-Dx: The method blank for preparation batch 580-218152 and analytical batch 580-218333 contained #2 Diesel (C10-C24) above the method detection limit. This target analyte concentration was less than 1/2 the reporting limit (1/2RL); therefore, re-extraction or re-analysis of samples was not performed.

Method(s) NWTPH-Dx: The %D of surrogate o-Terphenyl in the CCV associated with batch 580-218333 was outside the lower control limits but recovered within the range of 50-150%. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.
(CCV 580-218333/14), (CCV 580-218333/35) and (CCVRT 580-218333/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 580-59770-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-1-052016
Date Collected: 05/20/16 10:30
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			05/25/16 14:57	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			05/25/16 14:57	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			05/25/16 14:57	1
1,1-Dichloroethane	**0.065**	**J**	0.20	0.025	ug/L			05/25/16 14:57	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			05/25/16 14:57	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			05/25/16 14:57	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			05/25/16 14:57	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			05/25/16 14:57	1
2-Butanone	ND		15	2.5	ug/L			05/25/16 14:57	1
2-Chloroethyl vinyl ether	ND		6.0	0.13	ug/L			05/25/16 14:57	1
2-Hexanone	ND		2.0	0.38	ug/L			05/25/16 14:57	1
4-Methyl-2-pentanone	ND		5.0	0.50	ug/L			05/25/16 14:57	1
Acetone	ND		2.0	0.40	ug/L			05/25/16 14:57	1
Acrolein	ND		15	2.5	ug/L			05/25/16 14:57	1
Acrylonitrile	ND		5.0	0.75	ug/L			05/25/16 14:57	1
Benzene	**0.036**	**J**	0.20	0.025	ug/L			05/25/16 14:57	1
Bromochloromethane	ND		0.20	0.025	ug/L			05/25/16 14:57	1
Bromodichloromethane	ND		0.20	0.025	ug/L			05/25/16 14:57	1
Bromoform	ND		0.50	0.080	ug/L			05/25/16 14:57	1
Bromomethane	ND		1.0	0.16	ug/L			05/25/16 14:57	1
Carbon disulfide	ND		0.20	0.025	ug/L			05/25/16 14:57	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			05/25/16 14:57	1
Chlorobenzene	ND		0.20	0.025	ug/L			05/25/16 14:57	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			05/25/16 14:57	1
Chloroethane	ND		0.50	0.075	ug/L			05/25/16 14:57	1
Chloroform	**0.19**	**J**	0.20	0.030	ug/L			05/25/16 14:57	1
Chloromethane	ND		0.30	0.050	ug/L			05/25/16 14:57	1
cis-1,2-Dichloroethene	ND		0.20	0.025	ug/L			05/25/16 14:57	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			05/25/16 14:57	1
Dibromomethane	ND		0.20	0.025	ug/L			05/25/16 14:57	1
Dichlorodifluoromethane	ND		0.40	0.050	ug/L			05/25/16 14:57	1
Ethylbenzene	ND		0.20	0.030	ug/L			05/25/16 14:57	1
Iodomethane	ND		0.50	0.070	ug/L			05/25/16 14:57	1
Isopropylbenzene	ND		0.50	0.060	ug/L			05/25/16 14:57	1
Methyl tert-butyl ether	ND		0.20	0.025	ug/L			05/25/16 14:57	1
Methylene Chloride	ND		0.50	0.11	ug/L			05/25/16 14:57	1
m-Xylene & p-Xylene	**0.12**	**J**	0.50	0.050	ug/L			05/25/16 14:57	1
o-Xylene	ND		0.50	0.060	ug/L			05/25/16 14:57	1
Styrene	ND		0.50	0.10	ug/L			05/25/16 14:57	1
t-Butylbenzene	ND		0.50	0.10	ug/L			05/25/16 14:57	1
Tetrachloroethene	**0.23**	**J**	0.50	0.070	ug/L			05/25/16 14:57	1
Toluene	**0.33**		0.20	0.025	ug/L			05/25/16 14:57	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			05/25/16 14:57	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			05/25/16 14:57	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.38	ug/L			05/25/16 14:57	1
Trichloroethene	**0.29**		0.20	0.025	ug/L			05/25/16 14:57	1
Trichlorofluoromethane	ND		0.50	0.025	ug/L			05/25/16 14:57	1
Vinyl acetate	ND		1.0	0.13	ug/L			05/25/16 14:57	1
Vinyl chloride	ND		0.020	0.013	ug/L			05/25/16 14:57	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-1-052016
Date Collected: 05/20/16 10:30
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		70 - 128		05/25/16 14:57	1
4-Bromofluorobenzene (Surr)	104		75 - 120		05/25/16 14:57	1
Dibromofluoromethane (Surr)	111		85 - 115		05/25/16 14:57	1
Toluene-d8 (Surr)	96		75 - 125		05/25/16 14:57	1
Trifluorotoluene (Surr)	90		80 - 127		05/25/16 14:57	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Acenaphthylene	ND		0.021	0.0032	ug/L		05/25/16 15:12	05/26/16 20:46	1
Anthracene	**0.012**	**J**	0.021	0.0021	ug/L		05/25/16 15:12	05/26/16 20:46	1
Benzo[a]anthracene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Benzo[a]pyrene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Benzo[b]fluoranthene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Benzo[g,h,i]perylene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Benzo[k]fluoranthene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Chrysene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Dibenz(a,h)anthracene	ND		0.021	0.0032	ug/L		05/25/16 15:12	05/26/16 20:46	1
Fluoranthene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Fluorene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Indeno[1,2,3-cd]pyrene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
2-Methylnaphthalene	ND		0.028	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Naphthalene	**0.0090**	**J**	0.021	0.0032	ug/L		05/25/16 15:12	05/26/16 20:46	1
Phenanthrene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1
Pyrene	ND		0.021	0.0064	ug/L		05/25/16 15:12	05/26/16 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	102		64 - 150	05/25/16 15:12	05/26/16 20:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.38	0.095	ug/L		05/25/16 12:52	06/01/16 00:41	1
Diethyl phthalate	ND		0.38	0.095	ug/L		05/25/16 12:52	06/01/16 00:41	1
Di-n-butyl phthalate	ND		0.38	0.12	ug/L		05/25/16 12:52	06/01/16 00:41	1
Butyl benzyl phthalate	**0.22**	**J**	0.57	0.19	ug/L		05/25/16 12:52	06/01/16 00:41	1
Bis(2-ethylhexyl) phthalate	**7.1**		2.8	1.1	ug/L		05/25/16 12:52	06/01/16 00:41	1
Di-n-octyl phthalate	ND		0.38	0.17	ug/L		05/25/16 12:52	06/01/16 00:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	88		64 - 150	05/25/16 12:52	06/01/16 00:41	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	27	ug/L			05/25/16 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150		05/25/16 15:14	1
Trifluorotoluene (Surr)	106		50 - 150		05/25/16 15:14	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**73**	**J B**	110	19	ug/L		05/26/16 10:44	05/29/16 18:53	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-1-052016
Date Collected: 05/20/16 10:30
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-1
Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	58	J	250	29	ug/L		05/26/16 10:44	05/29/16 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*05/26/16 10:44*	*05/29/16 18:53*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43		0.40	0.080	ug/L		06/02/16 13:52	06/03/16 14:34	1
Barium	42		1.2	0.054	ug/L		06/02/16 13:52	06/03/16 14:34	1
Cadmium	0.039	J	0.40	0.028	ug/L		06/02/16 13:52	06/03/16 14:34	1
Chromium	0.33	J	0.40	0.14	ug/L		06/02/16 13:52	06/03/16 14:34	1
Copper	ND		2.0	0.60	ug/L		06/02/16 13:52	06/03/16 14:34	1
Lead	0.050	J	0.40	0.034	ug/L		06/02/16 13:52	06/03/16 14:34	1
Manganese	520		2.0	0.35	ug/L		06/02/16 13:52	06/03/16 14:34	1
Nickel	1.8	J	3.0	0.40	ug/L		06/02/16 13:52	06/03/16 14:34	1
Silver	ND		0.40	0.030	ug/L		06/02/16 13:52	06/03/16 14:34	1
Zinc	2.5	J	7.0	1.9	ug/L		06/02/16 13:52	06/03/16 14:34	1
Aluminum	ND		100	100	ug/L		06/02/16 13:52	06/03/16 14:34	1
Magnesium	15000		10000	3000	ug/L		06/02/16 13:52	06/03/16 14:34	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00073		0.00040	0.000080	mg/L		06/02/16 13:52	06/03/16 14:12	1
Barium	0.042		0.0012	0.000054	mg/L		06/02/16 13:52	06/03/16 14:12	1
Cadmium	0.000039	J	0.00040	0.000028	mg/L		06/02/16 13:52	06/03/16 14:12	1
Chromium	0.00035	J	0.00040	0.00014	mg/L		06/02/16 13:52	06/03/16 14:12	1
Copper	0.0012	J	0.0020	0.00060	mg/L		06/02/16 13:52	06/03/16 14:12	1
Lead	0.00013	J	0.00040	0.000034	mg/L		06/02/16 13:52	06/03/16 14:12	1
Nickel	0.0018	J	0.0030	0.00040	mg/L		06/02/16 13:52	06/03/16 14:12	1
Silver	ND		0.00040	0.000030	mg/L		06/02/16 13:52	06/03/16 14:12	1
Zinc	0.0041	J	0.0070	0.0019	mg/L		06/02/16 13:52	06/03/16 14:12	1
Aluminum	ND		0.10	0.10	mg/L		06/02/16 13:52	06/03/16 14:12	1
Magnesium	15		10	3.0	mg/L		06/02/16 13:52	06/03/16 14:12	1
Manganese	0.53		0.0020	0.00035	mg/L		06/02/16 13:52	06/03/16 14:12	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3		0.20	0.10	ug/L		06/02/16 10:42	06/04/16 14:38	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		0.20	0.10	ug/L		06/03/16 09:20	06/04/16 15:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.041	ug/L		05/31/16 12:05	05/31/16 15:18	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000041	mg/L		05/31/16 12:05	05/31/16 15:42	1

Client Sample Results

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-1-052016
Date Collected: 05/20/16 10:30
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.1		1.0	0.65	mg/L			05/31/16 07:36	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-3-052016
Date Collected: 05/20/16 13:26
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.20**		0.20	0.025	ug/L			05/25/16 15:23	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			05/25/16 15:23	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			05/25/16 15:23	1
1,1-Dichloroethane	**0.37**		0.20	0.025	ug/L			05/25/16 15:23	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			05/25/16 15:23	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			05/25/16 15:23	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			05/25/16 15:23	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			05/25/16 15:23	1
2-Butanone	ND		15	2.5	ug/L			05/25/16 15:23	1
2-Chloroethyl vinyl ether	ND		6.0	0.13	ug/L			05/25/16 15:23	1
2-Hexanone	ND		2.0	0.38	ug/L			05/25/16 15:23	1
4-Methyl-2-pentanone	ND		5.0	0.50	ug/L			05/25/16 15:23	1
Acetone	ND		2.0	0.40	ug/L			05/25/16 15:23	1
Acrolein	ND		15	2.5	ug/L			05/25/16 15:23	1
Acrylonitrile	ND		5.0	0.75	ug/L			05/25/16 15:23	1
Benzene	ND		0.20	0.025	ug/L			05/25/16 15:23	1
Bromochloromethane	ND		0.20	0.025	ug/L			05/25/16 15:23	1
Bromodichloromethane	ND		0.20	0.025	ug/L			05/25/16 15:23	1
Bromoform	ND		0.50	0.080	ug/L			05/25/16 15:23	1
Bromomethane	ND		1.0	0.16	ug/L			05/25/16 15:23	1
Carbon disulfide	ND		0.20	0.025	ug/L			05/25/16 15:23	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			05/25/16 15:23	1
Chlorobenzene	ND		0.20	0.025	ug/L			05/25/16 15:23	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			05/25/16 15:23	1
Chloroethane	ND		0.50	0.075	ug/L			05/25/16 15:23	1
Chloroform	**0.54**		0.20	0.030	ug/L			05/25/16 15:23	1
Chloromethane	ND		0.30	0.050	ug/L			05/25/16 15:23	1
cis-1,2-Dichloroethene	ND		0.20	0.025	ug/L			05/25/16 15:23	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			05/25/16 15:23	1
Dibromomethane	ND		0.20	0.025	ug/L			05/25/16 15:23	1
Dichlorodifluoromethane	ND		0.40	0.050	ug/L			05/25/16 15:23	1
Ethylbenzene	ND		0.20	0.030	ug/L			05/25/16 15:23	1
Iodomethane	ND		0.50	0.070	ug/L			05/25/16 15:23	1
Isopropylbenzene	ND		0.50	0.060	ug/L			05/25/16 15:23	1
Methyl tert-butyl ether	ND		0.20	0.025	ug/L			05/25/16 15:23	1
Methylene Chloride	ND		0.50	0.11	ug/L			05/25/16 15:23	1
m-Xylene & p-Xylene	**0.051**	**J**	0.50	0.050	ug/L			05/25/16 15:23	1
o-Xylene	ND		0.50	0.060	ug/L			05/25/16 15:23	1
Styrene	ND		0.50	0.10	ug/L			05/25/16 15:23	1
t-Butylbenzene	ND		0.50	0.10	ug/L			05/25/16 15:23	1
Tetrachloroethene	**0.87**		0.50	0.070	ug/L			05/25/16 15:23	1
Toluene	**0.41**		0.20	0.025	ug/L			05/25/16 15:23	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			05/25/16 15:23	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			05/25/16 15:23	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.38	ug/L			05/25/16 15:23	1
Trichloroethene	**2.8**		0.20	0.025	ug/L			05/25/16 15:23	1
Trichlorofluoromethane	ND		0.50	0.025	ug/L			05/25/16 15:23	1
Vinyl acetate	ND		1.0	0.13	ug/L			05/25/16 15:23	1
Vinyl chloride	ND		0.020	0.013	ug/L			05/25/16 15:23	1

Client Sample ID: MW-3-052016
Date Collected: 05/20/16 13:26
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		70 - 128		05/25/16 15:23	1
4-Bromofluorobenzene (Surr)	103		75 - 120		05/25/16 15:23	1
Dibromofluoromethane (Surr)	108		85 - 115		05/25/16 15:23	1
Toluene-d8 (Surr)	94		75 - 125		05/25/16 15:23	1
Trifluorotoluene (Surr)	93		80 - 127		05/25/16 15:23	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Acenaphthylene	ND		0.021	0.0031	ug/L		05/25/16 15:12	05/26/16 21:08	1
Anthracene	**0.013**	**J**	0.021	0.0021	ug/L		05/25/16 15:12	05/26/16 21:08	1
Benzo[a]anthracene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Benzo[a]pyrene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Benzo[b]fluoranthene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Benzo[g,h,i]perylene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Benzo[k]fluoranthene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Chrysene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Dibenz(a,h)anthracene	ND		0.021	0.0031	ug/L		05/25/16 15:12	05/26/16 21:08	1
Fluoranthene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Fluorene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Indeno[1,2,3-cd]pyrene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
2-Methylnaphthalene	ND		0.027	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Naphthalene	**0.0084**	**J**	0.021	0.0031	ug/L		05/25/16 15:12	05/26/16 21:08	1
Phenanthrene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1
Pyrene	ND		0.021	0.0062	ug/L		05/25/16 15:12	05/26/16 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	95		64 - 150	05/25/16 15:12	05/26/16 21:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.38	0.095	ug/L		05/25/16 12:52	06/01/16 01:07	1
Diethyl phthalate	ND		0.38	0.095	ug/L		05/25/16 12:52	06/01/16 01:07	1
Di-n-butyl phthalate	ND		0.38	0.12	ug/L		05/25/16 12:52	06/01/16 01:07	1
Butyl benzyl phthalate	**0.32**	**J**	0.57	0.19	ug/L		05/25/16 12:52	06/01/16 01:07	1
Bis(2-ethylhexyl) phthalate	**2.6**	**J**	2.9	1.1	ug/L		05/25/16 12:52	06/01/16 01:07	1
Di-n-octyl phthalate	ND		0.38	0.17	ug/L		05/25/16 12:52	06/01/16 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	93		64 - 150	05/25/16 12:52	06/01/16 01:07	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	27	ug/L			05/25/16 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150		05/25/16 15:47	1
Trifluorotoluene (Surr)	107		50 - 150		05/25/16 15:47	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**43**	**J B**	110	19	ug/L		05/26/16 10:44	05/29/16 19:15	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-3-052016
Date Collected: 05/20/16 13:26
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-2
Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	33	J	250	29	ug/L		05/26/16 10:44	05/29/16 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*05/26/16 10:44*	*05/29/16 19:15*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.081	J	0.40	0.080	ug/L		06/02/16 13:52	06/03/16 14:39	1
Barium	39		1.2	0.054	ug/L		06/02/16 13:52	06/03/16 14:39	1
Cadmium	0.091	J	0.40	0.028	ug/L		06/02/16 13:52	06/03/16 14:39	1
Chromium	0.41		0.40	0.14	ug/L		06/02/16 13:52	06/03/16 14:39	1
Copper	ND		2.0	0.60	ug/L		06/02/16 13:52	06/03/16 14:39	1
Lead	0.046	J	0.40	0.034	ug/L		06/02/16 13:52	06/03/16 14:39	1
Manganese	260		2.0	0.35	ug/L		06/02/16 13:52	06/03/16 14:39	1
Nickel	2.5	J	3.0	0.40	ug/L		06/02/16 13:52	06/03/16 14:39	1
Silver	ND		0.40	0.030	ug/L		06/02/16 13:52	06/03/16 14:39	1
Zinc	3.8	J	7.0	1.9	ug/L		06/02/16 13:52	06/03/16 14:39	1
Aluminum	ND		100	100	ug/L		06/02/16 13:52	06/03/16 14:39	1
Magnesium	17000		10000	3000	ug/L		06/02/16 13:52	06/03/16 14:39	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.000099	J	0.00040	0.000080	mg/L		06/02/16 13:52	06/03/16 14:16	1
Barium	0.038		0.0012	0.000054	mg/L		06/02/16 13:52	06/03/16 14:16	1
Cadmium	0.000086	J	0.00040	0.000028	mg/L		06/02/16 13:52	06/03/16 14:16	1
Chromium	0.00019	J	0.00040	0.00014	mg/L		06/02/16 13:52	06/03/16 14:16	1
Copper	0.0013	J	0.0020	0.00060	mg/L		06/02/16 13:52	06/03/16 14:16	1
Lead	ND		0.00040	0.000034	mg/L		06/02/16 13:52	06/03/16 14:16	1
Nickel	0.0025	J	0.0030	0.00040	mg/L		06/02/16 13:52	06/03/16 14:16	1
Silver	ND		0.00040	0.000030	mg/L		06/02/16 13:52	06/03/16 14:16	1
Zinc	0.0046	J	0.0070	0.0019	mg/L		06/02/16 13:52	06/03/16 14:16	1
Aluminum	ND		0.10	0.10	mg/L		06/02/16 13:52	06/03/16 14:16	1
Magnesium	17		10	3.0	mg/L		06/02/16 13:52	06/03/16 14:16	1
Manganese	0.24		0.0020	0.00035	mg/L		06/02/16 13:52	06/03/16 14:16	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3		0.20	0.10	ug/L		06/02/16 10:42	06/04/16 14:47	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2		0.20	0.10	ug/L		06/03/16 09:20	06/04/16 15:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.041	ug/L		05/31/16 12:05	05/31/16 15:35	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000041	mg/L		05/31/16 12:05	05/31/16 15:45	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-3-052016
Date Collected: 05/20/16 13:26
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.2		1.0	0.65	mg/L			05/31/16 08:35	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-3-052016-D
Date Collected: 05/20/16 13:26
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.20**		0.20	0.025	ug/L			05/25/16 15:49	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			05/25/16 15:49	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			05/25/16 15:49	1
1,1-Dichloroethane	**0.41**		0.20	0.025	ug/L			05/25/16 15:49	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			05/25/16 15:49	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			05/25/16 15:49	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			05/25/16 15:49	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			05/25/16 15:49	1
2-Butanone	ND		15	2.5	ug/L			05/25/16 15:49	1
2-Chloroethyl vinyl ether	ND		6.0	0.13	ug/L			05/25/16 15:49	1
2-Hexanone	ND		2.0	0.38	ug/L			05/25/16 15:49	1
4-Methyl-2-pentanone	ND		5.0	0.50	ug/L			05/25/16 15:49	1
Acetone	ND		2.0	0.40	ug/L			05/25/16 15:49	1
Acrolein	ND		15	2.5	ug/L			05/25/16 15:49	1
Acrylonitrile	ND		5.0	0.75	ug/L			05/25/16 15:49	1
Benzene	ND		0.20	0.025	ug/L			05/25/16 15:49	1
Bromochloromethane	ND		0.20	0.025	ug/L			05/25/16 15:49	1
Bromodichloromethane	ND		0.20	0.025	ug/L			05/25/16 15:49	1
Bromoform	**0.10**	**J B**	0.50	0.080	ug/L			05/25/16 15:49	1
Bromomethane	ND		1.0	0.16	ug/L			05/25/16 15:49	1
Carbon disulfide	ND		0.20	0.025	ug/L			05/25/16 15:49	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			05/25/16 15:49	1
Chlorobenzene	ND		0.20	0.025	ug/L			05/25/16 15:49	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			05/25/16 15:49	1
Chloroethane	ND		0.50	0.075	ug/L			05/25/16 15:49	1
Chloroform	**0.50**		0.20	0.030	ug/L			05/25/16 15:49	1
Chloromethane	ND		0.30	0.050	ug/L			05/25/16 15:49	1
cis-1,2-Dichloroethene	**0.12**	**J**	0.20	0.025	ug/L			05/25/16 15:49	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			05/25/16 15:49	1
Dibromomethane	ND		0.20	0.025	ug/L			05/25/16 15:49	1
Dichlorodifluoromethane	ND		0.40	0.050	ug/L			05/25/16 15:49	1
Ethylbenzene	ND		0.20	0.030	ug/L			05/25/16 15:49	1
Iodomethane	ND		0.50	0.070	ug/L			05/25/16 15:49	1
Isopropylbenzene	ND		0.50	0.060	ug/L			05/25/16 15:49	1
Methyl tert-butyl ether	ND		0.20	0.025	ug/L			05/25/16 15:49	1
Methylene Chloride	ND		0.50	0.11	ug/L			05/25/16 15:49	1
m-Xylene & p-Xylene	**0.059**	**J**	0.50	0.050	ug/L			05/25/16 15:49	1
o-Xylene	ND		0.50	0.060	ug/L			05/25/16 15:49	1
Styrene	ND		0.50	0.10	ug/L			05/25/16 15:49	1
t-Butylbenzene	ND		0.50	0.10	ug/L			05/25/16 15:49	1
Tetrachloroethene	**0.98**		0.50	0.070	ug/L			05/25/16 15:49	1
Toluene	**0.43**		0.20	0.025	ug/L			05/25/16 15:49	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			05/25/16 15:49	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			05/25/16 15:49	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.38	ug/L			05/25/16 15:49	1
Trichloroethene	**2.7**		0.20	0.025	ug/L			05/25/16 15:49	1
Trichlorofluoromethane	ND		0.50	0.025	ug/L			05/25/16 15:49	1
Vinyl acetate	ND		1.0	0.13	ug/L			05/25/16 15:49	1
Vinyl chloride	ND		0.020	0.013	ug/L			05/25/16 15:49	1

Client Sample ID: MW-3-052016-D
Date Collected: 05/20/16 13:26
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		70 - 128		05/25/16 15:49	1
4-Bromofluorobenzene (Surr)	105		75 - 120		05/25/16 15:49	1
Dibromofluoromethane (Surr)	107		85 - 115		05/25/16 15:49	1
Toluene-d8 (Surr)	96		75 - 125		05/25/16 15:49	1
Trifluorotoluene (Surr)	93		80 - 127		05/25/16 15:49	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Acenaphthylene	ND		0.020	0.0030	ug/L		05/25/16 15:12	05/26/16 21:31	1
Anthracene	**0.016**	**J**	0.020	0.0020	ug/L		05/25/16 15:12	05/26/16 21:31	1
Benzo[a]anthracene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Benzo[a]pyrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Benzo[b]fluoranthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Benzo[g,h,i]perylene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Benzo[k]fluoranthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Chrysene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Dibenz(a,h)anthracene	ND		0.020	0.0030	ug/L		05/25/16 15:12	05/26/16 21:31	1
Fluoranthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Fluorene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Indeno[1,2,3-cd]pyrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
2-Methylnaphthalene	ND		0.026	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Naphthalene	**0.0092**	**J**	0.020	0.0030	ug/L		05/25/16 15:12	05/26/16 21:31	1
Phenanthrene	**0.0061**	**J**	0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1
Pyrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	99		64 - 150	05/25/16 15:12	05/26/16 21:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.38	0.095	ug/L		05/25/16 12:52	06/01/16 18:22	1
Diethyl phthalate	ND		0.38	0.095	ug/L		05/25/16 12:52	06/01/16 18:22	1
Di-n-butyl phthalate	ND		0.38	0.12	ug/L		05/25/16 12:52	06/01/16 18:22	1
Butyl benzyl phthalate	**0.32**	**J**	0.57	0.19	ug/L		05/25/16 12:52	06/01/16 18:22	1
Bis(2-ethylhexyl) phthalate	ND		2.9	1.1	ug/L		05/25/16 12:52	06/01/16 18:22	1
Di-n-octyl phthalate	ND		0.38	0.17	ug/L		05/25/16 12:52	06/01/16 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	91		64 - 150	05/25/16 12:52	06/01/16 18:22	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	27	ug/L			05/25/16 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150		05/25/16 16:19	1
Trifluorotoluene (Surr)	203	X	50 - 150		05/25/16 16:19	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**35**	**J B**	110	19	ug/L		05/26/16 10:44	05/29/16 19:38	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-3-052016-D
Date Collected: 05/20/16 13:26
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-3
Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		250	29	ug/L		05/26/16 10:44	05/29/16 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*05/26/16 10:44*	*05/29/16 19:38*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.084**	**J**	0.40	0.080	ug/L		06/02/16 13:52	06/03/16 14:43	1
Barium	**38**		1.2	0.054	ug/L		06/02/16 13:52	06/03/16 14:43	1
Cadmium	**0.088**	**J**	0.40	0.028	ug/L		06/02/16 13:52	06/03/16 14:43	1
Chromium	**0.36**	**J**	0.40	0.14	ug/L		06/02/16 13:52	06/03/16 14:43	1
Copper	ND		2.0	0.60	ug/L		06/02/16 13:52	06/03/16 14:43	1
Lead	ND		0.40	0.034	ug/L		06/02/16 13:52	06/03/16 14:43	1
Manganese	**230**		2.0	0.35	ug/L		06/02/16 13:52	06/03/16 14:43	1
Nickel	**2.2**	**J**	3.0	0.40	ug/L		06/02/16 13:52	06/03/16 14:43	1
Silver	ND		0.40	0.030	ug/L		06/02/16 13:52	06/03/16 14:43	1
Zinc	**3.7**	**J**	7.0	1.9	ug/L		06/02/16 13:52	06/03/16 14:43	1
Aluminum	ND		100	100	ug/L		06/02/16 13:52	06/03/16 14:43	1
Magnesium	**17000**		10000	3000	ug/L		06/02/16 13:52	06/03/16 14:43	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.000095**	**J**	0.00040	0.000080	mg/L		06/02/16 13:52	06/03/16 14:21	1
Barium	**0.037**		0.0012	0.000054	mg/L		06/02/16 13:52	06/03/16 14:21	1
Cadmium	**0.000077**	**J**	0.00040	0.000028	mg/L		06/02/16 13:52	06/03/16 14:21	1
Chromium	**0.00017**	**J**	0.00040	0.00014	mg/L		06/02/16 13:52	06/03/16 14:21	1
Copper	**0.0012**	**J**	0.0020	0.00060	mg/L		06/02/16 13:52	06/03/16 14:21	1
Lead	ND		0.00040	0.000034	mg/L		06/02/16 13:52	06/03/16 14:21	1
Nickel	**0.0023**	**J**	0.0030	0.00040	mg/L		06/02/16 13:52	06/03/16 14:21	1
Silver	ND		0.00040	0.000030	mg/L		06/02/16 13:52	06/03/16 14:21	1
Zinc	**0.0043**	**J**	0.0070	0.0019	mg/L		06/02/16 13:52	06/03/16 14:21	1
Aluminum	ND		0.10	0.10	mg/L		06/02/16 13:52	06/03/16 14:21	1
Magnesium	**17**		10	3.0	mg/L		06/02/16 13:52	06/03/16 14:21	1
Manganese	**0.23**		0.0020	0.00035	mg/L		06/02/16 13:52	06/03/16 14:21	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.2**		0.20	0.10	ug/L		06/02/16 10:42	06/04/16 14:57	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.2**		0.20	0.10	ug/L		06/06/16 09:47	06/07/16 17:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.041	ug/L		05/31/16 12:05	05/31/16 15:28	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000041	mg/L		05/31/16 12:05	05/31/16 15:47	1

Client Sample Results

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-3-052016-D
Date Collected: 05/20/16 13:26
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.2		1.0	0.65	mg/L			05/31/16 09:04	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-7-052016
Date Collected: 05/20/16 14:55
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.17**	**J**	0.20	0.025	ug/L			05/25/16 16:15	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			05/25/16 16:15	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			05/25/16 16:15	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			05/25/16 16:15	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			05/25/16 16:15	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			05/25/16 16:15	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			05/25/16 16:15	1
2-Butanone	ND		15	2.5	ug/L			05/25/16 16:15	1
2-Chloroethyl vinyl ether	ND		6.0	0.13	ug/L			05/25/16 16:15	1
2-Hexanone	ND		2.0	0.38	ug/L			05/25/16 16:15	1
4-Methyl-2-pentanone	ND		5.0	0.50	ug/L			05/25/16 16:15	1
Acetone	ND		2.0	0.40	ug/L			05/25/16 16:15	1
Acrolein	ND		15	2.5	ug/L			05/25/16 16:15	1
Acrylonitrile	ND		5.0	0.75	ug/L			05/25/16 16:15	1
Benzene	**0.030**	**J**	0.20	0.025	ug/L			05/25/16 16:15	1
Bromochloromethane	ND		0.20	0.025	ug/L			05/25/16 16:15	1
Bromodichloromethane	ND		0.20	0.025	ug/L			05/25/16 16:15	1
Bromoform	ND		0.50	0.080	ug/L			05/25/16 16:15	1
Bromomethane	ND		1.0	0.16	ug/L			05/25/16 16:15	1
Carbon disulfide	**0.065**	**J**	0.20	0.025	ug/L			05/25/16 16:15	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			05/25/16 16:15	1
Chlorobenzene	ND		0.20	0.025	ug/L			05/25/16 16:15	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			05/25/16 16:15	1
Chloroethane	ND		0.50	0.075	ug/L			05/25/16 16:15	1
Chloromethane	ND		0.30	0.050	ug/L			05/25/16 16:15	1
cis-1,2-Dichloroethene	**0.056**	**J**	0.20	0.025	ug/L			05/25/16 16:15	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			05/25/16 16:15	1
Dibromomethane	ND		0.20	0.025	ug/L			05/25/16 16:15	1
Dichlorodifluoromethane	ND		0.40	0.050	ug/L			05/25/16 16:15	1
Ethylbenzene	**0.049**	**J**	0.20	0.030	ug/L			05/25/16 16:15	1
Iodomethane	ND		0.50	0.070	ug/L			05/25/16 16:15	1
Isopropylbenzene	ND		0.50	0.060	ug/L			05/25/16 16:15	1
Methyl tert-butyl ether	ND		0.20	0.025	ug/L			05/25/16 16:15	1
Methylene Chloride	ND		0.50	0.11	ug/L			05/25/16 16:15	1
m-Xylene & p-Xylene	**0.16**	**J**	0.50	0.050	ug/L			05/25/16 16:15	1
o-Xylene	**0.064**	**J**	0.50	0.060	ug/L			05/25/16 16:15	1
Styrene	ND		0.50	0.10	ug/L			05/25/16 16:15	1
t-Butylbenzene	ND		0.50	0.10	ug/L			05/25/16 16:15	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			05/25/16 16:15	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			05/25/16 16:15	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.38	ug/L			05/25/16 16:15	1
Trichlorofluoromethane	ND		0.50	0.025	ug/L			05/25/16 16:15	1
Vinyl acetate	ND		1.0	0.13	ug/L			05/25/16 16:15	1
Vinyl chloride	ND		0.020	0.013	ug/L			05/25/16 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 128*		*05/25/16 16:15*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*		*05/25/16 16:15*	*1*
Dibromofluoromethane (Surr)	*119*	*X*	*85 - 115*		*05/25/16 16:15*	*1*

Client Sample ID: MW-7-052016
Date Collected: 05/20/16 14:55
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*95*		*75 - 125*		*05/25/16 16:15*	*1*
Trifluorotoluene (Surr)	*86*		*80 - 127*		*05/25/16 16:15*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**0.22**		0.20	0.025	ug/L			05/26/16 12:47	1
Chloroform	**2.6**		0.20	0.030	ug/L			05/26/16 12:47	1
Tetrachloroethene	**2.9**		0.50	0.070	ug/L			05/26/16 12:47	1
Toluene	**0.38**		0.20	0.025	ug/L			05/26/16 12:47	1
Trichloroethene	**1.4**		0.20	0.025	ug/L			05/26/16 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 128*		*05/26/16 12:47*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*		*05/26/16 12:47*	*1*
Dibromofluoromethane (Surr)	*118*	*X*	*85 - 115*		*05/26/16 12:47*	*1*
Toluene-d8 (Surr)	*94*		*75 - 125*		*05/26/16 12:47*	*1*
Trifluorotoluene (Surr)	*80*		*80 - 127*		*05/26/16 12:47*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Acenaphthylene	ND		0.021	0.0032	ug/L		05/25/16 15:12	05/26/16 21:54	1
Anthracene	**0.0067**	**J**	0.021	0.0021	ug/L		05/25/16 15:12	05/26/16 21:54	1
Benzo[a]anthracene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Benzo[a]pyrene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Benzo[b]fluoranthene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Benzo[g,h,i]perylene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Benzo[k]fluoranthene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Chrysene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Dibenz(a,h)anthracene	ND		0.021	0.0032	ug/L		05/25/16 15:12	05/26/16 21:54	1
Fluoranthene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Fluorene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Indeno[1,2,3-cd]pyrene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
2-Methylnaphthalene	ND		0.027	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Naphthalene	**0.018**	**J**	0.021	0.0032	ug/L		05/25/16 15:12	05/26/16 21:54	1
Phenanthrene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1
Pyrene	ND		0.021	0.0063	ug/L		05/25/16 15:12	05/26/16 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*99*		*64 - 150*	*05/25/16 15:12*	*05/26/16 21:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.38	0.095	ug/L		05/25/16 12:52	06/01/16 18:48	1
Diethyl phthalate	ND		0.38	0.095	ug/L		05/25/16 12:52	06/01/16 18:48	1
Di-n-butyl phthalate	ND		0.38	0.12	ug/L		05/25/16 12:52	06/01/16 18:48	1
Butyl benzyl phthalate	**0.20**	**J**	0.57	0.19	ug/L		05/25/16 12:52	06/01/16 18:48	1
Bis(2-ethylhexyl) phthalate	**1.3**	**J**	2.8	1.1	ug/L		05/25/16 12:52	06/01/16 18:48	1
Di-n-octyl phthalate	ND		0.38	0.17	ug/L		05/25/16 12:52	06/01/16 18:48	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-7-052016
Date Collected: 05/20/16 14:55
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*90*		*64 - 150*	*05/25/16 12:52*	*06/01/16 18:48*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	27	ug/L			05/25/16 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*		*05/25/16 16:52*	*1*
Trifluorotoluene (Surr)	*106*		*50 - 150*		*05/25/16 16:52*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**100**	**J B**	110	19	ug/L		05/26/16 10:44	05/29/16 20:01	1
Motor Oil (>C24-C36)	**41**	**J**	250	29	ug/L		05/26/16 10:44	05/29/16 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*86*		*50 - 150*	*05/26/16 10:44*	*05/29/16 20:01*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.31**	**J**	0.40	0.080	ug/L		06/02/16 13:52	06/03/16 14:48	1
Barium	**29**		1.2	0.054	ug/L		06/02/16 13:52	06/03/16 14:48	1
Cadmium	ND		0.40	0.028	ug/L		06/02/16 13:52	06/03/16 14:48	1
Chromium	**0.42**		0.40	0.14	ug/L		06/02/16 13:52	06/03/16 14:48	1
Copper	ND		2.0	0.60	ug/L		06/02/16 13:52	06/03/16 14:48	1
Lead	**0.042**	**J**	0.40	0.034	ug/L		06/02/16 13:52	06/03/16 14:48	1
Manganese	**230**		2.0	0.35	ug/L		06/02/16 13:52	06/03/16 14:48	1
Nickel	**1.0**	**J**	3.0	0.40	ug/L		06/02/16 13:52	06/03/16 14:48	1
Silver	ND		0.40	0.030	ug/L		06/02/16 13:52	06/03/16 14:48	1
Zinc	**3.4**	**J**	7.0	1.9	ug/L		06/02/16 13:52	06/03/16 14:48	1
Aluminum	ND		100	100	ug/L		06/02/16 13:52	06/03/16 14:48	1
Magnesium	**9500**	**J**	10000	3000	ug/L		06/02/16 13:52	06/03/16 14:48	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00034**	**J**	0.00040	0.000080	mg/L		06/02/16 13:52	06/03/16 14:25	1
Barium	**0.027**		0.0012	0.000054	mg/L		06/02/16 13:52	06/03/16 14:25	1
Cadmium	ND		0.00040	0.000028	mg/L		06/02/16 13:52	06/03/16 14:25	1
Chromium	ND		0.00040	0.00014	mg/L		06/02/16 13:52	06/03/16 14:25	1
Copper	ND		0.0020	0.00060	mg/L		06/02/16 13:52	06/03/16 14:25	1
Lead	ND		0.00040	0.000034	mg/L		06/02/16 13:52	06/03/16 14:25	1
Nickel	**0.00084**	**J**	0.0030	0.00040	mg/L		06/02/16 13:52	06/03/16 14:25	1
Silver	ND		0.00040	0.000030	mg/L		06/02/16 13:52	06/03/16 14:25	1
Zinc	**0.0036**	**J**	0.0070	0.0019	mg/L		06/02/16 13:52	06/03/16 14:25	1
Aluminum	ND		0.10	0.10	mg/L		06/02/16 13:52	06/03/16 14:25	1
Magnesium	**9.3**	**J**	10	3.0	mg/L		06/02/16 13:52	06/03/16 14:25	1
Manganese	**0.21**		0.0020	0.00035	mg/L		06/02/16 13:52	06/03/16 14:25	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.6**		0.20	0.10	ug/L		06/02/16 10:42	06/04/16 15:00	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-7-052016
Date Collected: 05/20/16 14:55
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.94		0.20	0.10	ug/L		06/06/16 09:47	06/07/16 17:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.041	ug/L		05/31/16 12:05	05/31/16 15:30	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000041	mg/L		05/31/16 12:05	05/31/16 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.2		1.0	0.65	mg/L			05/31/16 09:34	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-2-052016
Date Collected: 05/20/16 16:00
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.20**		0.20	0.025	ug/L			05/25/16 17:05	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			05/25/16 17:05	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			05/25/16 17:05	1
1,1-Dichloroethane	**0.30**		0.20	0.025	ug/L			05/25/16 17:05	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			05/25/16 17:05	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			05/25/16 17:05	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			05/25/16 17:05	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			05/25/16 17:05	1
2-Butanone	ND		15	2.5	ug/L			05/25/16 17:05	1
2-Chloroethyl vinyl ether	ND		6.0	0.13	ug/L			05/25/16 17:05	1
2-Hexanone	ND		2.0	0.38	ug/L			05/25/16 17:05	1
4-Methyl-2-pentanone	ND		5.0	0.50	ug/L			05/25/16 17:05	1
Acetone	ND		2.0	0.40	ug/L			05/25/16 17:05	1
Acrolein	ND		15	2.5	ug/L			05/25/16 17:05	1
Acrylonitrile	ND		5.0	0.75	ug/L			05/25/16 17:05	1
Benzene	**0.039**	**J**	0.20	0.025	ug/L			05/25/16 17:05	1
Bromochloromethane	ND		0.20	0.025	ug/L			05/25/16 17:05	1
Bromodichloromethane	ND		0.20	0.025	ug/L			05/25/16 17:05	1
Bromoform	ND		0.50	0.080	ug/L			05/25/16 17:05	1
Bromomethane	ND		1.0	0.16	ug/L			05/25/16 17:05	1
Carbon disulfide	**0.045**	**J**	0.20	0.025	ug/L			05/25/16 17:05	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			05/25/16 17:05	1
Chlorobenzene	ND		0.20	0.025	ug/L			05/25/16 17:05	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			05/25/16 17:05	1
Chloroethane	ND		0.50	0.075	ug/L			05/25/16 17:05	1
Chloroform	**0.60**		0.20	0.030	ug/L			05/25/16 17:05	1
Chloromethane	**0.17**	**J**	0.30	0.050	ug/L			05/25/16 17:05	1
cis-1,2-Dichloroethene	**0.079**	**J**	0.20	0.025	ug/L			05/25/16 17:05	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			05/25/16 17:05	1
Dibromomethane	ND		0.20	0.025	ug/L			05/25/16 17:05	1
Dichlorodifluoromethane	ND		0.40	0.050	ug/L			05/25/16 17:05	1
Ethylbenzene	**0.048**	**J**	0.20	0.030	ug/L			05/25/16 17:05	1
Iodomethane	ND		0.50	0.070	ug/L			05/25/16 17:05	1
Isopropylbenzene	ND		0.50	0.060	ug/L			05/25/16 17:05	1
Methyl tert-butyl ether	ND		0.20	0.025	ug/L			05/25/16 17:05	1
Methylene Chloride	ND		0.50	0.11	ug/L			05/25/16 17:05	1
m-Xylene & p-Xylene	**0.15**	**J**	0.50	0.050	ug/L			05/25/16 17:05	1
o-Xylene	**0.073**	**J**	0.50	0.060	ug/L			05/25/16 17:05	1
Styrene	ND		0.50	0.10	ug/L			05/25/16 17:05	1
t-Butylbenzene	ND		0.50	0.10	ug/L			05/25/16 17:05	1
Tetrachloroethene	**0.57**		0.50	0.070	ug/L			05/25/16 17:05	1
Toluene	**0.92**		0.20	0.025	ug/L			05/25/16 17:05	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			05/25/16 17:05	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			05/25/16 17:05	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.38	ug/L			05/25/16 17:05	1
Trichloroethene	**1.8**		0.20	0.025	ug/L			05/25/16 17:05	1
Trichlorofluoromethane	ND		0.50	0.025	ug/L			05/25/16 17:05	1
Vinyl acetate	ND		1.0	0.13	ug/L			05/25/16 17:05	1
Vinyl chloride	ND		0.020	0.013	ug/L			05/25/16 17:05	1

Client Sample ID: MW-2-052016
Date Collected: 05/20/16 16:00
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		70 - 128		05/25/16 17:05	1
4-Bromofluorobenzene (Surr)	104		75 - 120		05/25/16 17:05	1
Dibromofluoromethane (Surr)	111		85 - 115		05/25/16 17:05	1
Toluene-d8 (Surr)	101		75 - 125		05/25/16 17:05	1
Trifluorotoluene (Surr)	89		80 - 127		05/25/16 17:05	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Acenaphthylene	ND		0.020	0.0030	ug/L		05/25/16 15:12	05/27/16 17:45	1
Anthracene	**0.0065**	**J**	0.020	0.0020	ug/L		05/25/16 15:12	05/27/16 17:45	1
Benzo[a]anthracene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Benzo[a]pyrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Benzo[b]fluoranthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Benzo[g,h,i]perylene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Benzo[k]fluoranthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Chrysene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Dibenz(a,h)anthracene	ND		0.020	0.0030	ug/L		05/25/16 15:12	05/27/16 17:45	1
Fluoranthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Fluorene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Indeno[1,2,3-cd]pyrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
2-Methylnaphthalene	ND		0.026	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Naphthalene	ND		0.020	0.0030	ug/L		05/25/16 15:12	05/27/16 17:45	1
Phenanthrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1
Pyrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/27/16 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	96		64 - 150	05/25/16 15:12	05/27/16 17:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.38	0.095	ug/L		05/25/16 12:52	06/01/16 19:14	1
Diethyl phthalate	ND		0.38	0.095	ug/L		05/25/16 12:52	06/01/16 19:14	1
Di-n-butyl phthalate	ND		0.38	0.12	ug/L		05/25/16 12:52	06/01/16 19:14	1
Butyl benzyl phthalate	**0.26**	**J**	0.57	0.19	ug/L		05/25/16 12:52	06/01/16 19:14	1
Bis(2-ethylhexyl) phthalate	ND		2.8	1.1	ug/L		05/25/16 12:52	06/01/16 19:14	1
Di-n-octyl phthalate	ND		0.38	0.17	ug/L		05/25/16 12:52	06/01/16 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	90		64 - 150	05/25/16 12:52	06/01/16 19:14	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	27	ug/L			05/25/16 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150		05/25/16 17:24	1
Trifluorotoluene (Surr)	179	X	50 - 150		05/25/16 17:24	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**65**	**J B**	110	19	ug/L		05/26/16 10:44	05/29/16 20:24	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-2-052016
Date Collected: 05/20/16 16:00
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-5
Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	52	J	250	29	ug/L		05/26/16 10:44	05/29/16 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*05/26/16 10:44*	*05/29/16 20:24*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	0.40	0.080	ug/L		06/02/16 13:52	06/03/16 14:52	1
Barium	29		1.2	0.054	ug/L		06/02/16 13:52	06/03/16 14:52	1
Cadmium	ND		0.40	0.028	ug/L		06/02/16 13:52	06/03/16 14:52	1
Chromium	0.34	J	0.40	0.14	ug/L		06/02/16 13:52	06/03/16 14:52	1
Copper	ND		2.0	0.60	ug/L		06/02/16 13:52	06/03/16 14:52	1
Lead	ND		0.40	0.034	ug/L		06/02/16 13:52	06/03/16 14:52	1
Manganese	210		2.0	0.35	ug/L		06/02/16 13:52	06/03/16 14:52	1
Nickel	1.5	J	3.0	0.40	ug/L		06/02/16 13:52	06/03/16 14:52	1
Silver	ND		0.40	0.030	ug/L		06/02/16 13:52	06/03/16 14:52	1
Zinc	3.3	J	7.0	1.9	ug/L		06/02/16 13:52	06/03/16 14:52	1
Aluminum	ND		100	100	ug/L		06/02/16 13:52	06/03/16 14:52	1
Magnesium	12000		10000	3000	ug/L		06/02/16 13:52	06/03/16 14:52	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00029	J	0.00040	0.000080	mg/L		06/02/16 13:52	06/03/16 14:30	1
Barium	0.029		0.0012	0.000054	mg/L		06/02/16 13:52	06/03/16 14:30	1
Cadmium	0.000065	J	0.00040	0.000028	mg/L		06/02/16 13:52	06/03/16 14:30	1
Chromium	0.00021	J	0.00040	0.00014	mg/L		06/02/16 13:52	06/03/16 14:30	1
Copper	0.00082	J	0.0020	0.00060	mg/L		06/02/16 13:52	06/03/16 14:30	1
Lead	ND		0.00040	0.000034	mg/L		06/02/16 13:52	06/03/16 14:30	1
Nickel	0.0016	J	0.0030	0.00040	mg/L		06/02/16 13:52	06/03/16 14:30	1
Silver	ND		0.00040	0.000030	mg/L		06/02/16 13:52	06/03/16 14:30	1
Zinc	0.0049	J	0.0070	0.0019	mg/L		06/02/16 13:52	06/03/16 14:30	1
Aluminum	ND		0.10	0.10	mg/L		06/02/16 13:52	06/03/16 14:30	1
Magnesium	11		10	3.0	mg/L		06/02/16 13:52	06/03/16 14:30	1
Manganese	0.21		0.0020	0.00035	mg/L		06/02/16 13:52	06/03/16 14:30	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2		0.20	0.10	ug/L		06/02/16 10:42	06/04/16 15:02	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.98		0.20	0.10	ug/L		06/06/16 09:47	06/07/16 17:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.041	ug/L		05/31/16 12:05	05/31/16 15:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000041	mg/L		05/31/16 12:05	05/31/16 15:57	1

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-2-052016
Date Collected: 05/20/16 16:00
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-5
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0		1.0	0.65	mg/L			05/31/16 10:03	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-218024/5
Matrix: Water
Analysis Batch: 218024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			05/25/16 11:00	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			05/25/16 11:00	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			05/25/16 11:00	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			05/25/16 11:00	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			05/25/16 11:00	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			05/25/16 11:00	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			05/25/16 11:00	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			05/25/16 11:00	1
2-Butanone	ND		15	2.5	ug/L			05/25/16 11:00	1
2-Chloroethyl vinyl ether	ND		6.0	0.13	ug/L			05/25/16 11:00	1
2-Hexanone	ND		2.0	0.38	ug/L			05/25/16 11:00	1
4-Methyl-2-pentanone	ND		5.0	0.50	ug/L			05/25/16 11:00	1
Acetone	ND		2.0	0.40	ug/L			05/25/16 11:00	1
Acrolein	ND		15	2.5	ug/L			05/25/16 11:00	1
Acrylonitrile	ND		5.0	0.75	ug/L			05/25/16 11:00	1
Benzene	ND		0.20	0.025	ug/L			05/25/16 11:00	1
Bromochloromethane	ND		0.20	0.025	ug/L			05/25/16 11:00	1
Bromodichloromethane	ND		0.20	0.025	ug/L			05/25/16 11:00	1
Bromoform	0.0926	J	0.50	0.080	ug/L			05/25/16 11:00	1
Bromomethane	ND		1.0	0.16	ug/L			05/25/16 11:00	1
Carbon disulfide	ND		0.20	0.025	ug/L			05/25/16 11:00	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			05/25/16 11:00	1
Chlorobenzene	ND		0.20	0.025	ug/L			05/25/16 11:00	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			05/25/16 11:00	1
Chloroethane	ND		0.50	0.075	ug/L			05/25/16 11:00	1
Chloroform	ND		0.20	0.030	ug/L			05/25/16 11:00	1
Chloromethane	ND		0.30	0.050	ug/L			05/25/16 11:00	1
cis-1,2-Dichloroethene	ND		0.20	0.025	ug/L			05/25/16 11:00	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			05/25/16 11:00	1
Dibromomethane	ND		0.20	0.025	ug/L			05/25/16 11:00	1
Dichlorodifluoromethane	ND		0.40	0.050	ug/L			05/25/16 11:00	1
Ethylbenzene	ND		0.20	0.030	ug/L			05/25/16 11:00	1
Iodomethane	ND		0.50	0.070	ug/L			05/25/16 11:00	1
Isopropylbenzene	ND		0.50	0.060	ug/L			05/25/16 11:00	1
Methyl tert-butyl ether	ND		0.20	0.025	ug/L			05/25/16 11:00	1
Methylene Chloride	ND		0.50	0.11	ug/L			05/25/16 11:00	1
m-Xylene & p-Xylene	ND		0.50	0.050	ug/L			05/25/16 11:00	1
o-Xylene	ND		0.50	0.060	ug/L			05/25/16 11:00	1
Styrene	ND		0.50	0.10	ug/L			05/25/16 11:00	1
t-Butylbenzene	ND		0.50	0.10	ug/L			05/25/16 11:00	1
Tetrachloroethene	ND		0.50	0.070	ug/L			05/25/16 11:00	1
Toluene	ND		0.20	0.025	ug/L			05/25/16 11:00	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			05/25/16 11:00	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			05/25/16 11:00	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.38	ug/L			05/25/16 11:00	1
Trichloroethene	ND		0.20	0.025	ug/L			05/25/16 11:00	1
Trichlorofluoromethane	ND		0.50	0.025	ug/L			05/25/16 11:00	1
Vinyl acetate	ND		1.0	0.13	ug/L			05/25/16 11:00	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-218024/5
Matrix: Water
Analysis Batch: 218024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020	0.013	ug/L			05/25/16 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 128*		*05/25/16 11:00*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*		*05/25/16 11:00*	*1*
Dibromofluoromethane (Surr)	*108*		*85 - 115*		*05/25/16 11:00*	*1*
Toluene-d8 (Surr)	*95*		*75 - 125*		*05/25/16 11:00*	*1*
Trifluorotoluene (Surr)	*93*		*80 - 127*		*05/25/16 11:00*	*1*

Lab Sample ID: LCS 580-218024/6
Matrix: Water
Analysis Batch: 218024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	5.02	6.01		ug/L		120	80 - 140
1,1,2,2-Tetrachloroethane	5.01	3.92		ug/L		78	75 - 125
1,1,2-Trichloroethane	5.02	4.39		ug/L		88	80 - 130
1,1-Dichloroethane	5.00	5.46		ug/L		109	75 - 135
1,2,3-Trichloropropane	5.01	4.28		ug/L		86	75 - 120
1,2-Dibromoethane	5.01	4.31		ug/L		86	70 - 130
1,2-Dichloroethane	5.00	5.70		ug/L		114	80 - 140
1,2-Dichloropropane	5.00	4.98		ug/L		99	80 - 120
2-Butanone	25.0	18.8		ug/L		75	20 - 200
2-Chloroethyl vinyl ether	5.00	4.23	J	ug/L		85	60 - 132
2-Hexanone	25.0	22.7		ug/L		91	52 - 160
4-Methyl-2-pentanone	25.0	22.8		ug/L		91	55 - 135
Acetone	25.0	21.1		ug/L		84	30 - 200
Acrolein	30.0	23.6		ug/L		79	12 - 185
Acrylonitrile	50.0	48.1		ug/L		96	65 - 150
Benzene	5.02	5.30		ug/L		106	80 - 120
Bromochloromethane	5.01	5.00		ug/L		100	80 - 125
Bromodichloromethane	5.02	5.33		ug/L		106	80 - 125
Bromoform	5.02	4.59		ug/L		91	65 - 130
Bromomethane	5.01	4.74		ug/L		95	70 - 135
Carbon disulfide	5.02	5.53		ug/L		110	65 - 160
Carbon tetrachloride	5.01	5.90		ug/L		118	75 - 140
Chlorobenzene	5.02	4.72		ug/L		94	80 - 120
Chlorodibromomethane	5.01	4.82		ug/L		96	70 - 120
Chloroethane	5.02	4.68		ug/L		93	75 - 140
Chloroform	5.00	5.61		ug/L		112	80 - 130
Chloromethane	5.02	4.75		ug/L		95	50 - 140
cis-1,2-Dichloroethene	5.01	5.36		ug/L		107	80 - 130
cis-1,3-Dichloropropene	5.01	4.45		ug/L		89	70 - 120
Dibromomethane	5.02	5.11		ug/L		102	80 - 130
Dichlorodifluoromethane	5.01	5.32		ug/L		106	30 - 180
Ethylbenzene	5.02	4.94		ug/L		98	80 - 125
Iodomethane	5.02	5.55		ug/L		111	60 - 160
Isopropylbenzene	5.01	5.03		ug/L		101	75 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-218024/6
Matrix: Water
Analysis Batch: 218024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	5.01	5.01		ug/L		100	75 - 120
Methylene Chloride	5.02	5.82		ug/L		116	60 - 145
m-Xylene & p-Xylene	5.01	5.09		ug/L		102	80 - 130
o-Xylene	5.01	5.49		ug/L		110	80 - 120
Styrene	5.01	4.60		ug/L		92	75 - 130
t-Butylbenzene	5.00	4.53		ug/L		91	80 - 130
Tetrachloroethene	5.01	4.94		ug/L		98	40 - 180
Toluene	5.00	4.72		ug/L		94	80 - 120
trans-1,2-Dichloroethene	5.01	5.05		ug/L		101	80 - 140
trans-1,3-Dichloropropene	5.00	4.21		ug/L		84	60 - 140
trans-1,4-Dichloro-2-butene	5.00	3.93		ug/L		79	40 - 140
Trichloroethene	5.01	5.39		ug/L		108	80 - 130
Trichlorofluoromethane	5.00	5.76		ug/L		115	30 - 180
Vinyl acetate	12.5	9.78		ug/L		78	30 - 200
Vinyl chloride	5.03	5.12		ug/L		102	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 128*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*
Dibromofluoromethane (Surr)	*106*		*85 - 115*
Toluene-d8 (Surr)	*94*		*75 - 125*
Trifluorotoluene (Surr)	*86*		*80 - 127*

Lab Sample ID: LCSD 580-218024/7
Matrix: Water
Analysis Batch: 218024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	5.02	5.74		ug/L		114	80 - 140	5	20
1,1,2,2-Tetrachloroethane	5.01	4.35		ug/L		87	75 - 125	10	20
1,1,2-Trichloroethane	5.02	4.47		ug/L		89	80 - 130	2	20
1,1-Dichloroethane	5.00	5.67		ug/L		113	75 - 135	4	20
1,2,3-Trichloropropane	5.01	4.53		ug/L		91	75 - 120	6	20
1,2-Dibromoethane	5.01	4.52		ug/L		90	70 - 130	5	20
1,2-Dichloroethane	5.00	5.81		ug/L		116	80 - 140	2	20
1,2-Dichloropropane	5.00	5.32		ug/L		106	80 - 120	7	20
2-Butanone	25.0	16.5		ug/L		66	20 - 200	13	20
2-Chloroethyl vinyl ether	5.00	4.04	J	ug/L		81	60 - 132	5	14
2-Hexanone	25.0	22.9		ug/L		92	52 - 160	1	20
4-Methyl-2-pentanone	25.0	22.9		ug/L		92	55 - 135	0	20
Acetone	25.0	21.7		ug/L		87	30 - 200	3	20
Acrolein	30.0	24.7		ug/L		82	12 - 185	5	17
Acrylonitrile	50.0	53.8		ug/L		108	65 - 150	11	20
Benzene	5.02	5.40		ug/L		108	80 - 120	2	20
Bromochloromethane	5.01	5.31		ug/L		106	80 - 125	6	20
Bromodichloromethane	5.02	5.68		ug/L		113	80 - 125	6	20
Bromoform	5.02	4.38		ug/L		87	65 - 130	5	20
Bromomethane	5.01	4.72		ug/L		94	70 - 135	0	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-218024/7
Matrix: Water
Analysis Batch: 218024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide			5.02	5.36		ug/L		107	65 - 160	3	20
Carbon tetrachloride			5.01	5.83		ug/L		116	75 - 140	1	20
Chlorobenzene			5.02	4.72		ug/L		94	80 - 120	0	20
Chlorodibromomethane			5.01	4.97		ug/L		99	70 - 120	3	20
Chloroethane			5.02	4.93		ug/L		98	75 - 140	5	20
Chloroform			5.00	5.55		ug/L		111	80 - 130	1	20
Chloromethane			5.02	4.34		ug/L		86	50 - 140	9	20
cis-1,2-Dichloroethene			5.01	5.40		ug/L		108	80 - 130	1	20
cis-1,3-Dichloropropene			5.01	4.85		ug/L		97	70 - 120	8	20
Dibromomethane			5.02	5.62		ug/L		112	80 - 130	10	20
Dichlorodifluoromethane			5.01	4.94		ug/L		99	30 - 180	7	20
Ethylbenzene			5.02	4.84		ug/L		96	80 - 125	2	20
Iodomethane			5.02	5.18		ug/L		103	60 - 160	7	20
Isopropylbenzene			5.01	4.93		ug/L		98	75 - 120	2	20
Methyl tert-butyl ether			5.01	5.34		ug/L		107	75 - 120	6	20
Methylene Chloride			5.02	5.74		ug/L		114	60 - 145	1	20
m-Xylene & p-Xylene			5.01	4.95		ug/L		99	80 - 130	3	20
o-Xylene			5.01	5.31		ug/L		106	80 - 120	3	20
Styrene			5.01	4.73		ug/L		95	75 - 130	3	20
t-Butylbenzene			5.00	4.66		ug/L		93	80 - 130	3	20
Tetrachloroethene			5.01	4.91		ug/L		98	40 - 180	1	20
Toluene			5.00	4.78		ug/L		95	80 - 120	1	20
trans-1,2-Dichloroethene			5.01	5.12		ug/L		102	80 - 140	1	20
trans-1,3-Dichloropropene			5.00	4.39		ug/L		88	60 - 140	4	20
trans-1,4-Dichloro-2-butene			5.00	4.16		ug/L		83	40 - 140	6	20
Trichloroethene			5.01	5.63		ug/L		112	80 - 130	4	20
Trichlorofluoromethane			5.00	5.34		ug/L		107	30 - 180	8	20
Vinyl acetate			12.5	11.0		ug/L		88	30 - 200	12	20
Vinyl chloride			5.03	5.41		ug/L		108	65 - 140	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 128*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*
Dibromofluoromethane (Surr)	*109*		*85 - 115*
Toluene-d8 (Surr)	*94*		*75 - 125*
Trifluorotoluene (Surr)	*90*		*80 - 127*

Lab Sample ID: MB 580-218134/5
Matrix: Water
Analysis Batch: 218134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.20	0.025	ug/L			05/26/16 10:36	1
Chloroform	ND		0.20	0.030	ug/L			05/26/16 10:36	1
Tetrachloroethene	ND		0.50	0.070	ug/L			05/26/16 10:36	1
Toluene	ND		0.20	0.025	ug/L			05/26/16 10:36	1
Trichloroethene	ND		0.20	0.025	ug/L			05/26/16 10:36	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-218134/5
Matrix: Water
Analysis Batch: 218134

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		70 - 128		05/26/16 10:36	1
4-Bromofluorobenzene (Surr)	99		75 - 120		05/26/16 10:36	1
Dibromofluoromethane (Surr)	111		85 - 115		05/26/16 10:36	1
Toluene-d8 (Surr)	84		75 - 125		05/26/16 10:36	1
Trifluorotoluene (Surr)	87		80 - 127		05/26/16 10:36	1

Lab Sample ID: LCS 580-218134/6
Matrix: Water
Analysis Batch: 218134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	5.00	5.81		ug/L		116	75 - 135
Chloroform	5.00	5.82		ug/L		116	80 - 130
Tetrachloroethene	5.01	4.82		ug/L		96	40 - 180
Toluene	5.00	4.80		ug/L		96	80 - 120
Trichloroethene	5.01	5.56		ug/L		111	80 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 128
4-Bromofluorobenzene (Surr)	108		75 - 120
Dibromofluoromethane (Surr)	110		85 - 115
Toluene-d8 (Surr)	93		75 - 125
Trifluorotoluene (Surr)	85		80 - 127

Lab Sample ID: LCSD 580-218134/7
Matrix: Water
Analysis Batch: 218134

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	5.00	5.59		ug/L		112	75 - 135	4	20
Chloroform	5.00	5.72		ug/L		114	80 - 130	2	20
Tetrachloroethene	5.01	4.64		ug/L		93	40 - 180	4	20
Toluene	5.00	4.68		ug/L		94	80 - 120	2	20
Trichloroethene	5.01	5.50		ug/L		110	80 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		70 - 128
4-Bromofluorobenzene (Surr)	106		75 - 120
Dibromofluoromethane (Surr)	107		85 - 115
Toluene-d8 (Surr)	93		75 - 125
Trifluorotoluene (Surr)	85		80 - 127

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-218062/1-A
Matrix: Water
Analysis Batch: 218423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.40	0.10	ug/L		05/25/16 12:52	05/31/16 17:19	1
Diethyl phthalate	ND		0.40	0.10	ug/L		05/25/16 12:52	05/31/16 17:19	1
Di-n-butyl phthalate	ND		0.40	0.13	ug/L		05/25/16 12:52	05/31/16 17:19	1
Butyl benzyl phthalate	ND		0.60	0.20	ug/L		05/25/16 12:52	05/31/16 17:19	1
Bis(2-ethylhexyl) phthalate	ND		3.0	1.2	ug/L		05/25/16 12:52	05/31/16 17:19	1
Di-n-octyl phthalate	ND		0.40	0.18	ug/L		05/25/16 12:52	05/31/16 17:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*92*		*64 - 150*	*05/25/16 12:52*	*05/31/16 17:19*	*1*

Lab Sample ID: LCS 580-218062/2-A
Matrix: Water
Analysis Batch: 218423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	2.00	1.45		ug/L		73	65 - 155
Diethyl phthalate	2.00	1.37		ug/L		69	60 - 150
Di-n-butyl phthalate	2.00	1.60		ug/L		80	55 - 167
Butyl benzyl phthalate	2.00	1.55		ug/L		78	60 - 167
Bis(2-ethylhexyl) phthalate	2.00	1.49	J	ug/L		75	70 - 185
Di-n-octyl phthalate	2.00	1.44		ug/L		72	55 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*85*		*64 - 150*

Lab Sample ID: LCSD 580-218062/3-A
Matrix: Water
Analysis Batch: 218423

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dimethyl phthalate	2.00	1.49		ug/L		75	65 - 155	3	20
Diethyl phthalate	2.00	1.44		ug/L		72	60 - 150	5	20
Di-n-butyl phthalate	2.00	1.74		ug/L		87	55 - 167	8	20
Butyl benzyl phthalate	2.00	1.69		ug/L		84	60 - 167	8	20
Bis(2-ethylhexyl) phthalate	2.00	1.53	J	ug/L		77	70 - 185	2	20
Di-n-octyl phthalate	2.00	1.54		ug/L		77	55 - 150	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*87*		*64 - 150*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-218088/1-A
Matrix: Water
Analysis Batch: 218216

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Acenaphthylene	ND		0.020	0.0030	ug/L		05/25/16 15:12	05/26/16 18:32	1
Anthracene	ND		0.020	0.0020	ug/L		05/25/16 15:12	05/26/16 18:32	1
Benzo[a]anthracene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Benzo[a]pyrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Benzo[b]fluoranthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Benzo[g,h,i]perylene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Benzo[k]fluoranthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Chrysene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Dibenz(a,h)anthracene	ND		0.020	0.0030	ug/L		05/25/16 15:12	05/26/16 18:32	1
Fluoranthene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Fluorene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Indeno[1,2,3-cd]pyrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
2-Methylnaphthalene	ND		0.026	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Naphthalene	ND		0.020	0.0030	ug/L		05/25/16 15:12	05/26/16 18:32	1
Phenanthrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1
Pyrene	ND		0.020	0.0060	ug/L		05/25/16 15:12	05/26/16 18:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*94*		*64 - 150*	*05/25/16 15:12*	*05/26/16 18:32*	*1*

Lab Sample ID: LCS 580-218088/2-A
Matrix: Water
Analysis Batch: 218216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	4.00	3.29		ug/L		82	54 - 109
Acenaphthylene	4.00	3.20		ug/L		80	30 - 127
Anthracene	4.00	3.43		ug/L		86	30 - 130
Benzo[a]anthracene	4.00	3.84		ug/L		96	35 - 125
Benzo[a]pyrene	4.00	3.27		ug/L		82	30 - 127
Benzo[b]fluoranthene	4.00	4.12		ug/L		103	59 - 126
Benzo[g,h,i]perylene	4.00	4.13		ug/L		103	51 - 128
Benzo[k]fluoranthene	4.00	4.21		ug/L		105	49 - 136
Chrysene	4.00	4.17		ug/L		104	57 - 120
Dibenz(a,h)anthracene	4.00	4.28		ug/L		107	60 - 136
Fluoranthene	4.00	3.67		ug/L		92	58 - 128
Fluorene	4.00	3.60		ug/L		90	50 - 130
Indeno[1,2,3-cd]pyrene	4.00	3.57		ug/L		89	53 - 131
2-Methylnaphthalene	4.00	3.77		ug/L		94	54 - 114
Naphthalene	4.00	3.42		ug/L		85	54 - 106
Phenanthrene	4.00	3.51		ug/L		88	53 - 115
Pyrene	4.00	3.55		ug/L		89	53 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*95*		*64 - 150*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 580-218088/3-A
Matrix: Water
Analysis Batch: 218216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218088

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			4.00	3.28		ug/L		82	54 - 109	0	20
Acenaphthylene			4.00	3.14		ug/L		78	30 - 127	2	20
Anthracene			4.00	3.38		ug/L		85	30 - 130	1	20
Benzo[a]anthracene			4.00	3.99		ug/L		100	35 - 125	4	20
Benzo[a]pyrene			4.00	3.40		ug/L		85	30 - 127	4	20
Benzo[b]fluoranthene			4.00	4.30		ug/L		108	59 - 126	4	20
Benzo[g,h,i]perylene			4.00	4.20		ug/L		105	51 - 128	2	20
Benzo[k]fluoranthene			4.00	4.28		ug/L		107	49 - 136	2	20
Chrysene			4.00	4.17		ug/L		104	57 - 120	0	20
Dibenz(a,h)anthracene			4.00	4.32		ug/L		108	60 - 136	1	20
Fluoranthene			4.00	3.68		ug/L		92	58 - 128	0	20
Fluorene			4.00	3.56		ug/L		89	50 - 130	1	20
Indeno[1,2,3-cd]pyrene			4.00	3.61		ug/L		90	53 - 131	1	20
2-Methylnaphthalene			4.00	3.66		ug/L		91	54 - 114	3	20
Naphthalene			4.00	3.44		ug/L		86	54 - 106	1	20
Phenanthrene			4.00	3.46		ug/L		87	53 - 115	1	20
Pyrene			4.00	3.53		ug/L		88	53 - 121	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*94*		*64 - 150*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-218046/5
Matrix: Water
Analysis Batch: 218046

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	27	ug/L			05/25/16 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*		*05/25/16 12:32*	*1*
Trifluorotoluene (Surr)	*109*		*50 - 150*		*05/25/16 12:32*	*1*

Lab Sample ID: LCS 580-218046/6
Matrix: Water
Analysis Batch: 218046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline			1170	1090		ug/L		93	79 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*50 - 150*
Trifluorotoluene (Surr)	*105*		*50 - 150*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-218046/7
Matrix: Water
Analysis Batch: 218046

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			1170	1080		ug/L		93	79 - 110	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*50 - 150*
Trifluorotoluene (Surr)	*108*		*50 - 150*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-218152/1-A
Matrix: Water
Analysis Batch: 218333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218152

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	34.7	J	110	19	ug/L		05/26/16 10:44	05/29/16 11:18	1
Motor Oil (>C24-C36)	ND		250	29	ug/L		05/26/16 10:44	05/29/16 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*05/26/16 10:44*	*05/29/16 11:18*	*1*

Lab Sample ID: LCS 580-218152/2-A
Matrix: Water
Analysis Batch: 218333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218152

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			2000	1790		ug/L		89	59 - 120
Motor Oil (>C24-C36)			2010	1940		ug/L		97	71 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*81*		*50 - 150*

Lab Sample ID: LCSD 580-218152/3-A
Matrix: Water
Analysis Batch: 218333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218152

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			2000	1690		ug/L		85	59 - 120	6	27
Motor Oil (>C24-C36)			2010	1860		ug/L		93	71 - 140	4	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*75*		*50 - 150*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-334091/1-A
Matrix: Water
Analysis Batch: 334635

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 334091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		06/02/16 10:42	06/04/16 14:33	1

Lab Sample ID: LCS 440-334091/2-A
Matrix: Water
Analysis Batch: 334635

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 334091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	79.4		ug/L		99	80 - 120

Lab Sample ID: 580-59770-1 MS
Matrix: Water
Analysis Batch: 334635

Client Sample ID: MW-1-052016
Prep Type: Total Recoverable
Prep Batch: 334091

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.3		80.0	77.8		ug/L		96	75 - 125

Lab Sample ID: 580-59770-1 MSD
Matrix: Water
Analysis Batch: 334635

Client Sample ID: MW-1-052016
Prep Type: Total Recoverable
Prep Batch: 334091

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.3		80.0	79.0		ug/L		97	75 - 125	2	20

Lab Sample ID: MB 440-333678/1-D
Matrix: Water
Analysis Batch: 334636

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 334296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		06/03/16 09:20	06/04/16 15:10	1

Lab Sample ID: LCS 440-333678/2-D
Matrix: Water
Analysis Batch: 334636

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 334296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	75.5		ug/L		94	80 - 120

Lab Sample ID: 580-59770-2 MS
Matrix: Water
Analysis Batch: 334636

Client Sample ID: MW-3-052016
Prep Type: Dissolved
Prep Batch: 334296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.2		80.0	80.2		ug/L		99	75 - 125

Lab Sample ID: 580-59770-2 MSD
Matrix: Water
Analysis Batch: 334636

Client Sample ID: MW-3-052016
Prep Type: Dissolved
Prep Batch: 334296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.2		80.0	78.1		ug/L		96	75 - 125	3	20

Lab Sample ID: MB 440-334407/1-B
Matrix: Water
Analysis Batch: 335093

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 334685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		06/06/16 09:47	06/07/16 17:29	1

Lab Sample ID: LCS 440-334407/2-B
Matrix: Water
Analysis Batch: 335093

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 334685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	75.6		ug/L		95	80 - 120

Lab Sample ID: 580-59770-4 MS
Matrix: Water
Analysis Batch: 335093

Client Sample ID: MW-7-052016
Prep Type: Dissolved
Prep Batch: 334685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.94		80.0	74.2		ug/L		92	75 - 125

Lab Sample ID: 580-59770-4 MSD
Matrix: Water
Analysis Batch: 335093

Client Sample ID: MW-7-052016
Prep Type: Dissolved
Prep Batch: 334685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.94		80.0	72.8		ug/L		90	75 - 125	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-218649/22-A
Matrix: Water
Analysis Batch: 218882

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 218649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040	0.000080	mg/L		06/02/16 13:52	06/03/16 13:18	1
Barium	ND		0.0012	0.000054	mg/L		06/02/16 13:52	06/03/16 13:18	1
Cadmium	ND		0.00040	0.000028	mg/L		06/02/16 13:52	06/03/16 13:18	1
Chromium	ND		0.00040	0.00014	mg/L		06/02/16 13:52	06/03/16 13:18	1
Copper	ND		0.0020	0.00060	mg/L		06/02/16 13:52	06/03/16 13:18	1
Lead	ND		0.00040	0.000034	mg/L		06/02/16 13:52	06/03/16 13:18	1
Nickel	ND		0.0030	0.00040	mg/L		06/02/16 13:52	06/03/16 13:18	1
Silver	ND		0.00040	0.000030	mg/L		06/02/16 13:52	06/03/16 13:18	1
Zinc	ND		0.0070	0.0019	mg/L		06/02/16 13:52	06/03/16 13:18	1
Aluminum	ND		0.10	0.10	mg/L		06/02/16 13:52	06/03/16 13:18	1
Magnesium	ND		10	3.0	mg/L		06/02/16 13:52	06/03/16 13:18	1
Manganese	ND		0.0020	0.00035	mg/L		06/02/16 13:52	06/03/16 13:18	1

Lab Sample ID: LCS 580-218649/23-A
Matrix: Water
Analysis Batch: 218882

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 218649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.89		mg/L		96	80 - 120
Barium	4.00	3.94		mg/L		98	80 - 120
Cadmium	0.100	0.106		mg/L		106	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-218649/23-A
Matrix: Water
Analysis Batch: 218882

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 218649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.400	0.406		mg/L		102	80 - 120
Copper	0.500	0.493		mg/L		99	80 - 120
Lead	1.00	0.988		mg/L		99	80 - 120
Nickel	1.00	0.992		mg/L		99	80 - 120
Silver	0.600	0.614		mg/L		102	80 - 120
Zinc	4.00	4.00		mg/L		100	80 - 120
Aluminum	10.0	10.4		mg/L		104	80 - 120
Magnesium	20.0	ND		mg/L		97	80 - 120
Manganese	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-218649/24-A
Matrix: Water
Analysis Batch: 218882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 218649

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.94		mg/L		98	80 - 120	2	20
Barium	4.00	3.98		mg/L		99	80 - 120	1	20
Cadmium	0.100	0.107		mg/L		107	80 - 120	1	20
Chromium	0.400	0.413		mg/L		103	80 - 120	2	20
Copper	0.500	0.504		mg/L		101	80 - 120	2	20
Lead	1.00	1.00		mg/L		100	80 - 120	2	20
Nickel	1.00	1.02		mg/L		102	80 - 120	3	20
Silver	0.600	0.625		mg/L		104	80 - 120	2	20
Zinc	4.00	4.08		mg/L		102	80 - 120	2	20
Aluminum	10.0	10.8		mg/L		108	80 - 120	4	20
Magnesium	20.0	ND		mg/L		98	80 - 120	1	20
Manganese	1.00	1.05		mg/L		105	80 - 120	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-218404/20-A
Matrix: Water
Analysis Batch: 218454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218404

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.041	ug/L		05/31/16 12:05	05/31/16 14:56	1

Lab Sample ID: LCS 580-218404/21-A
Matrix: Water
Analysis Batch: 218454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	2.15		ug/L		107	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-218404/22-A
Matrix: Water
Analysis Batch: 218454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218404

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			2.00	2.15		ug/L		107	80 - 120	0	20

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 440-333589/6
Matrix: Water
Analysis Batch: 333589

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.65	mg/L			05/31/16 07:07	1

Lab Sample ID: LCS 440-333589/5
Matrix: Water
Analysis Batch: 333589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			10.0	9.42		mg/L		94	90 - 110		

Lab Sample ID: 580-59770-1 MS
Matrix: Water
Analysis Batch: 333589

Client Sample ID: MW-1-052016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.1		5.00	5.33		mg/L		85	80 - 120		

Lab Sample ID: 580-59770-1 MSD
Matrix: Water
Analysis Batch: 333589

Client Sample ID: MW-1-052016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.1		5.00	5.34		mg/L		85	80 - 120	0	20

Lab Chronicle

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-1-052016

Lab Sample ID: 580-59770-1

Date Collected: 05/20/16 10:30

Matrix: Water

Date Received: 05/23/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	218024	05/25/16 14:57	TL1	TAL SEA
Total/NA	Prep	3520C			218062	05/25/16 12:52	JDR	TAL SEA
Total/NA	Analysis	8270D		1	218423	06/01/16 00:41	ERB	TAL SEA
Total/NA	Prep	3520C			218088	05/25/16 15:12	JDR	TAL SEA
Total/NA	Analysis	8270D SIM		1	218216	05/26/16 20:46	D1R	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	218046	05/25/16 15:14	D1R	TAL SEA
Total/NA	Prep	3510C			218152	05/26/16 10:44	MDD	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	218333	05/29/16 18:53	CJ	TAL SEA
Dissolved	Filtration	FILTRATION			333678	05/31/16 19:17	Q1N	TAL IRV
Dissolved	Prep	3005A			334296	06/03/16 09:20	Q1N	TAL IRV
Dissolved	Analysis	6020		1	334636	06/04/16 15:22	EN	TAL IRV
Total Recoverable	Prep	3005A			334091	06/02/16 10:42	Q1N	TAL IRV
Total Recoverable	Analysis	6020		1	334635	06/04/16 14:38	EN	TAL IRV
Dissolved	Filtration	FILTRATION			218004	05/24/16 18:30	PAB	TAL SEA
Dissolved	Prep	3005A			218649	06/02/16 13:52	MKN	TAL SEA
Dissolved	Analysis	6020A		1	218882	06/03/16 14:12	FCW	TAL SEA
Total Recoverable	Prep	3005A			218649	06/02/16 13:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	218882	06/03/16 14:34	FCW	TAL SEA
Dissolved	Filtration	FILTRATION			218004	05/24/16 18:30	PAB	TAL SEA
Dissolved	Prep	7470A			218404	05/31/16 12:05	MKN	TAL SEA
Dissolved	Analysis	7470A		1	218454	05/31/16 15:42	FCW	TAL SEA
Total/NA	Prep	7470A			218404	05/31/16 12:05	MKN	TAL SEA
Total/NA	Analysis	7470A		1	218454	05/31/16 15:18	FCW	TAL SEA
Total/NA	Analysis	9060		1	333589	05/31/16 07:36	YZ	TAL IRV

Client Sample ID: MW-3-052016

Lab Sample ID: 580-59770-2

Date Collected: 05/20/16 13:26

Matrix: Water

Date Received: 05/23/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	218024	05/25/16 15:23	TL1	TAL SEA
Total/NA	Prep	3520C			218062	05/25/16 12:52	JDR	TAL SEA
Total/NA	Analysis	8270D		1	218423	06/01/16 01:07	ERB	TAL SEA
Total/NA	Prep	3520C			218088	05/25/16 15:12	JDR	TAL SEA
Total/NA	Analysis	8270D SIM		1	218216	05/26/16 21:08	D1R	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	218046	05/25/16 15:47	D1R	TAL SEA
Total/NA	Prep	3510C			218152	05/26/16 10:44	MDD	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	218333	05/29/16 19:15	CJ	TAL SEA
Dissolved	Filtration	FILTRATION			333678	05/31/16 19:17	Q1N	TAL IRV
Dissolved	Prep	3005A			334296	06/03/16 09:20	Q1N	TAL IRV
Dissolved	Analysis	6020		1	334636	06/04/16 15:15	EN	TAL IRV
Total Recoverable	Prep	3005A			334091	06/02/16 10:42	Q1N	TAL IRV
Total Recoverable	Analysis	6020		1	334635	06/04/16 14:47	EN	TAL IRV

Lab Chronicle

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-3-052016

Date Collected: 05/20/16 13:26
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			218004	05/24/16 18:30	PAB	TAL SEA
Dissolved	Prep	3005A			218649	06/02/16 13:52	MKN	TAL SEA
Dissolved	Analysis	6020A		1	218882	06/03/16 14:16	FCW	TAL SEA
Total Recoverable	Prep	3005A			218649	06/02/16 13:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	218882	06/03/16 14:39	FCW	TAL SEA
Dissolved	Filtration	FILTRATION			218004	05/24/16 18:30	PAB	TAL SEA
Dissolved	Prep	7470A			218404	05/31/16 12:05	MKN	TAL SEA
Dissolved	Analysis	7470A		1	218454	05/31/16 15:45	FCW	TAL SEA
Total/NA	Prep	7470A			218404	05/31/16 12:05	MKN	TAL SEA
Total/NA	Analysis	7470A		1	218454	05/31/16 15:35	FCW	TAL SEA
Total/NA	Analysis	9060		1	333589	05/31/16 08:35	YZ	TAL IRV

Client Sample ID: MW-3-052016-D

Date Collected: 05/20/16 13:26
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	218024	05/25/16 15:49	TL1	TAL SEA
Total/NA	Prep	3520C			218062	05/25/16 12:52	JDR	TAL SEA
Total/NA	Analysis	8270D		1	218503	06/01/16 18:22	ERB	TAL SEA
Total/NA	Prep	3520C			218088	05/25/16 15:12	JDR	TAL SEA
Total/NA	Analysis	8270D SIM		1	218216	05/26/16 21:31	D1R	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	218046	05/25/16 16:19	D1R	TAL SEA
Total/NA	Prep	3510C			218152	05/26/16 10:44	MDD	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	218333	05/29/16 19:38	CJ	TAL SEA
Dissolved	Filtration	FILTRATION			334407	06/03/16 14:47	DT	TAL IRV
Dissolved	Prep	3005A			334685	06/06/16 09:47	Q1N	TAL IRV
Dissolved	Analysis	6020		1	335093	06/07/16 17:42	EN	TAL IRV
Total Recoverable	Prep	3005A			334091	06/02/16 10:42	Q1N	TAL IRV
Total Recoverable	Analysis	6020		1	334635	06/04/16 14:57	EN	TAL IRV
Dissolved	Filtration	FILTRATION			218004	05/24/16 18:30	PAB	TAL SEA
Dissolved	Prep	3005A			218649	06/02/16 13:52	MKN	TAL SEA
Dissolved	Analysis	6020A		1	218882	06/03/16 14:21	FCW	TAL SEA
Total Recoverable	Prep	3005A			218649	06/02/16 13:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	218882	06/03/16 14:43	FCW	TAL SEA
Dissolved	Filtration	FILTRATION			218004	05/24/16 18:30	PAB	TAL SEA
Dissolved	Prep	7470A			218404	05/31/16 12:05	MKN	TAL SEA
Dissolved	Analysis	7470A		1	218454	05/31/16 15:47	FCW	TAL SEA
Total/NA	Prep	7470A			218404	05/31/16 12:05	MKN	TAL SEA
Total/NA	Analysis	7470A		1	218454	05/31/16 15:28	FCW	TAL SEA
Total/NA	Analysis	9060		1	333589	05/31/16 09:04	YZ	TAL IRV

Client Sample ID: MW-7-052016

Date Collected: 05/20/16 14:55
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	218024	05/25/16 16:15	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	218134	05/26/16 12:47	TL1	TAL SEA
Total/NA	Prep	3520C			218062	05/25/16 12:52	JDR	TAL SEA
Total/NA	Analysis	8270D		1	218503	06/01/16 18:48	ERB	TAL SEA
Total/NA	Prep	3520C			218088	05/25/16 15:12	JDR	TAL SEA
Total/NA	Analysis	8270D SIM		1	218216	05/26/16 21:54	D1R	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	218046	05/25/16 16:52	D1R	TAL SEA
Total/NA	Prep	3510C			218152	05/26/16 10:44	MDD	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	218333	05/29/16 20:01	CJ	TAL SEA
Dissolved	Filtration	FILTRATION			334407	06/03/16 14:47	DT	TAL IRV
Dissolved	Prep	3005A			334685	06/06/16 09:47	Q1N	TAL IRV
Dissolved	Analysis	6020		1	335093	06/07/16 17:34	EN	TAL IRV
Total Recoverable	Prep	3005A			334091	06/02/16 10:42	Q1N	TAL IRV
Total Recoverable	Analysis	6020		1	334635	06/04/16 15:00	EN	TAL IRV
Dissolved	Filtration	FILTRATION			218004	05/24/16 18:30	PAB	TAL SEA
Dissolved	Prep	3005A			218649	06/02/16 13:52	MKN	TAL SEA
Dissolved	Analysis	6020A		1	218882	06/03/16 14:25	FCW	TAL SEA
Total Recoverable	Prep	3005A			218649	06/02/16 13:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	218882	06/03/16 14:48	FCW	TAL SEA
Dissolved	Filtration	FILTRATION			218004	05/24/16 18:30	PAB	TAL SEA
Dissolved	Prep	7470A			218404	05/31/16 12:05	MKN	TAL SEA
Dissolved	Analysis	7470A		1	218454	05/31/16 15:55	FCW	TAL SEA
Total/NA	Prep	7470A			218404	05/31/16 12:05	MKN	TAL SEA
Total/NA	Analysis	7470A		1	218454	05/31/16 15:30	FCW	TAL SEA
Total/NA	Analysis	9060		1	333589	05/31/16 09:34	YZ	TAL IRV

Client Sample ID: MW-2-052016

Date Collected: 05/20/16 16:00
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	218024	05/25/16 17:05	TL1	TAL SEA
Total/NA	Prep	3520C			218062	05/25/16 12:52	JDR	TAL SEA
Total/NA	Analysis	8270D		1	218503	06/01/16 19:14	ERB	TAL SEA
Total/NA	Prep	3520C			218088	05/25/16 15:12	JDR	TAL SEA
Total/NA	Analysis	8270D SIM		1	218289	05/27/16 17:45	ERZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	218046	05/25/16 17:24	D1R	TAL SEA
Total/NA	Prep	3510C			218152	05/26/16 10:44	MDD	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	218333	05/29/16 20:24	CJ	TAL SEA
Dissolved	Filtration	FILTRATION			334407	06/03/16 14:47	DT	TAL IRV
Dissolved	Prep	3005A			334685	06/06/16 09:47	Q1N	TAL IRV
Dissolved	Analysis	6020		1	335093	06/07/16 17:47	EN	TAL IRV
Total Recoverable	Prep	3005A			334091	06/02/16 10:42	Q1N	TAL IRV

Lab Chronicle

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Client Sample ID: MW-2-052016

Date Collected: 05/20/16 16:00
Date Received: 05/23/16 08:00

Lab Sample ID: 580-59770-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		1	334635	06/04/16 15:02	EN	TAL IRV
Dissolved	Filtration	FILTRATION			218004	05/24/16 18:30	PAB	TAL SEA
Dissolved	Prep	3005A			218649	06/02/16 13:52	MKN	TAL SEA
Dissolved	Analysis	6020A		1	218882	06/03/16 14:30	FCW	TAL SEA
Total Recoverable	Prep	3005A			218649	06/02/16 13:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	218882	06/03/16 14:52	FCW	TAL SEA
Dissolved	Filtration	FILTRATION			218004	05/24/16 18:30	PAB	TAL SEA
Dissolved	Prep	7470A			218404	05/31/16 12:05	MKN	TAL SEA
Dissolved	Analysis	7470A		1	218454	05/31/16 15:57	FCW	TAL SEA
Total/NA	Prep	7470A			218404	05/31/16 12:05	MKN	TAL SEA
Total/NA	Analysis	7470A		1	218454	05/31/16 15:33	FCW	TAL SEA
Total/NA	Analysis	9060		1	333589	05/31/16 10:03	YZ	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-17
California	State Program	9	2901	01-31-18
L-A-B	DoD ELAP		L2236	01-19-19
L-A-B	ISO/IEC 17025		L2236	01-19-19
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	10-31-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-17

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-16
California	LA Cty Sanitation Districts	9	10256	01-31-17 *
California	State Program	9	CA ELAP 2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-17
Hawaii	State Program	9	N/A	01-29-17
Kansas	NELAP Secondary AB	7	E-10420	07-31-16
Nevada	State Program	9	CA015312016-2	07-31-16
New Mexico	State Program	6	N/A	01-29-17
Northern Mariana Islands	State Program	9	MP0002	01-29-17
Oregon	NELAP	10	4028	01-29-17
USDA	Federal		P330-09-00080	07-08-18
Washington	State Program	10	C900	09-03-16

* Certification renewal pending - certification considered valid.

Sample Summary

Client: GeoPro LLC
Project/Site: Oseran (OR)

TestAmerica Job ID: 580-59770-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-59770-1	MW-1-052016	Water	05/20/16 10:30	05/23/16 08:00
580-59770-2	MW-3-052016	Water	05/20/16 13:26	05/23/16 08:00
580-59770-3	MW-3-052016-D	Water	05/20/16 13:26	05/23/16 08:00
580-59770-4	MW-7-052016	Water	05/20/16 14:55	05/23/16 08:00
580-59770-5	MW-2-052016	Water	05/20/16 16:00	05/23/16 08:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

580-59770 Chain of Custody

Chain of Custody Record

Client: GeoPro LLC	Client Contact: Rick Kent	Date: 5-20-16	Chain of Custody Number: 26710
Address: P.O. Box 26	Telephone Number (Area Code)/Fax Number: 360-907-5648	Lab Number:	Page ____ of ____
City: Battle Ground	State: WA	Zip Code:	Sampler: M Masterson
Project Name and Location (State): Oseran (OR)	Billing Contact:	Lab Contact:	Analysis (Attach list if more space is needed)
Contract/Purchase Order/Quote No.			Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	SIM PAH	Total Metals/Mercury	Dissolved Metals/Mercury	NWTPH-Dx	TOC	PAH	Volatiles	NWTPH-Gx	VOC
MW-1-052016	5/20/16	1030		X			X	X	X	X			X	X	X	X	X	X	X	X	X
MW-3-052016	5/20/16	1326		X			X	X	X	X			X	X	X	X	X	X	X	X	X
MW-3-052016-D	5/20/16	1326		X			X	X	X	X			X	X	X	X	X	X	X	X	X
MW-7-052016	5/20/16	1455		X			X	X	X	X			X	X	X	X	X	X	X	X	X
MW-2-052016	5/20/16	1600		X			X	X	X	X			X	X	X	X	X	X	X	X	X

Cooler: ☐ Yes ☐ No Cooler Temp: ____

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Regular

QC Requirements (Specify):

		Date	Time
1. Relinquished By Sign/Print	Megan Masterson	5-20-16	1612
2. Relinquished By Sign/Print	Lab	5/23/16	0800
3. Relinquished By Sign/Print			
1. Received By Sign/Print	Phil Sudal-Seroi	5/20/16	1612
2. Received By Sign/Print			
3. Received By Sign/Print			

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

5.1, 4.8, 4.2

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Greer, Robert A	Carrier Tracking No(s):	COC No: 580-38577.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: robert.greer@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 580-59770-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 6/7/2016			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			Other:
Project Name: Oseran (OR)	Project #: 58009239			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9060/ TOC - Duplicate	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1-052016 (580-59770-1)	5/20/16	10:30 Pacific		Water			X	1	
MW-3-052016 (580-59770-2)	5/20/16	13:26 Pacific		Water			X	1	
MW-3-052016-D (580-59770-3)	5/20/16	13:26 Pacific		Water			X	1	
MW-7-052016 (580-59770-4)	5/20/16	14:55 Pacific		Water			X	1	
MW-2-052016 (580-59770-5)	5/20/16	16:00 Pacific		Water			X	1	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Phillip M. Swallow-Lee	5/23/16 1700	TAL		05/24/16 9:45	TAL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.1°/28 #77 TRK-6712 6365 0629

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Greer, Robert A	Carrier Tracking No(s):	COC No: 580-38577.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: robert.greer@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 580-59770-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 6/7/2016			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Oseran (OR)	Project #: 58009239			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9060/ TOC - Duplicate	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1-052016 (580-59770-1)	5/20/16	10:30 Pacific		Water			X	1	
MW-3-052016 (580-59770-2)	5/20/16	13:26 Pacific		Water			X	1	
MW-3-052016-D (580-59770-3)	5/20/16	13:26 Pacific		Water			X	1	
MW-7-052016 (580-59770-4)	5/20/16	14:55 Pacific		Water			X	1	
MW-2-052016 (580-59770-5)	5/20/16	16:00 Pacific		Water			X	1	

Possible Hazard Identification

Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Phillip M. Smith-Lee	5/23/16 1700	TAL		05/24/16 9:45	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		3.1°/28 #77

TRK-6712 6365 0629

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6/9/2016
Appendix F

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Greer, Robert A	Carrier Tracking No(s):	COC No: 580-38643.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: robert.greer@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 580-59770-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 6/7/2016			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Oseran (OR)	Project #: 58009239			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	[redacted]	6020_LL/3005A (MOD) Template for building analyte list	6020_LL/FILTRATION (MOD) Copy Analytes	6020_LL/3005A (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW-1-052016 (580-59770-1)	5/20/16	10:30 Pacific		Water				X	X	X	2	
MW-3-052016 (580-59770-2)	5/20/16	13:26 Pacific		Water				X	X	X	2	
MW-3-052016-D (580-59770-3)	5/20/16	13:26 Pacific		Water				X	X	X	2	
MW-7-052016 (580-59770-4)	5/20/16	14:55 Pacific		Water				X	X	X	2	
MW-2-052016 (580-59770-5)	5/20/16	16:00 Pacific		Water				X	X	X	2	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Tom [illegible]	5/24/16	TA-Sea	[illegible]	05/25/16 10:00	TMS
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.3°C/4.0 #74

TRK-6769 6809 9843

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Greer, Robert A	Carrier Tracking No(s):	COC No: 580-38643.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: robert.greer@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 580-59770-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 6/7/2016			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Oseran (OR)	Project #: 58009239			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	[redacted]	6020_LL/3005A (MOD) Template for building analyte list	6020_LL/FILTRATION (MOD) Copy Analytes	6020_LL/3005A (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW-1-052016 (580-59770-1)	5/20/16	10:30 Pacific		Water				X	X	X	2	
MW-3-052016 (580-59770-2)	5/20/16	13:26 Pacific		Water				X	X	X	2	
MW-3-052016-D (580-59770-3)	5/20/16	13:26 Pacific		Water				X	X	X	2	
MW-7-052016 (580-59770-4)	5/20/16	14:55 Pacific		Water				X	X	X	2	
MW-2-052016 (580-59770-5)	5/20/16	16:00 Pacific		Water				X	X	X	2	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Tom P. Lamb	5/24/16	TA-Sea	[signature]	05/25/16 10:00	TAS
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.3°C/4.0 #74

TRK-6769 6909 9843

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6/9/2016
Appendix F

Login Sample Receipt Checklist

Client: GeoPro LLC

Job Number: 580-59770-1

Login Number: 59770
List Number: 1
Creator: Svabik-Seror, Philip M

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	HNO3 bottles are not marked as field filtered.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Apex Labs

12232 S.W. Garden Place
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503-718-2323 Phone
503-718-0333 Fax

Sunday, November 20, 2016

Richard Kent
GeoPro LLC
PO Box 26
Battle Ground, WA 98604

RE: States Battery -- Osrean 2016 / 161013

Enclosed are the results of analyses for work order A6J0465, which was received by the laboratory on 10/13/2016 at 6:25:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2-102016	A6J0465-01	Water	10/13/16 10:15	10/13/16 18:25
MW-7-102016	A6J0465-02	Water	10/13/16 12:25	10/13/16 18:25
Trip Blank	A6J0465-03	Water	10/13/16 00:00	10/13/16 18:25
MW-3-102016	A6J0465-04	Water	10/13/16 15:00	10/13/16 18:25
MW-3-102016-D	A6J0465-05	Water	10/13/16 15:00	10/13/16 18:25
MW-1-102016	A6J0465-06	Water	10/13/16 16:00	10/13/16 18:25

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01)			**Matrix: Water**		**Batch: 6100791**			
Diesel	ND	38.1	76.2	ug/L	1	10/20/16 19:09	NWTPH-Dx	
Oil	ND	76.2	152	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 87 %*	*Limits: 50-150 %*	"	"	"	
MW-7-102016 (A6J0465-02)			**Matrix: Water**		**Batch: 6100791**			
Diesel	ND	38.1	76.2	ug/L	1	10/20/16 19:29	NWTPH-Dx	
Oil	ND	76.2	152	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 87 %*	*Limits: 50-150 %*	"	"	"	
MW-3-102016 (A6J0465-04)			**Matrix: Water**		**Batch: 6100791**			
Diesel	ND	38.1	76.2	ug/L	1	10/20/16 19:50	NWTPH-Dx	
Oil	ND	76.2	152	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 93 %*	*Limits: 50-150 %*	"	"	"	
MW-3-102016-D (A6J0465-05)			**Matrix: Water**		**Batch: 6100684**			
Diesel	ND	38.1	76.2	ug/L	1	10/18/16 19:27	NWTPH-Dx	
Oil	ND	76.2	152	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 85 %*	*Limits: 50-150 %*	"	"	"	
MW-1-102016 (A6J0465-06)			**Matrix: Water**		**Batch: 6100684**			
Diesel	ND	38.1	76.2	ug/L	1	10/18/16 19:49	NWTPH-Dx	
Oil	ND	76.2	152	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 79 %*	*Limits: 50-150 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01)			**Matrix: Water**		**Batch: 6100588**			
Gasoline Range Organics	ND	50.0	100	ug/L	1	10/14/16 13:41	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	"	"	"	
1,4-Difluorobenzene (Sur)			*90 %*	*Limits: 50-150 %*	"	"	"	
MW-7-102016 (A6J0465-02)			**Matrix: Water**		**Batch: 6100588**			
Gasoline Range Organics	ND	50.0	100	ug/L	1	10/14/16 14:08	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	"	"	"	
1,4-Difluorobenzene (Sur)			*91 %*	*Limits: 50-150 %*	"	"	"	
MW-3-102016 (A6J0465-04)			**Matrix: Water**		**Batch: 6100588**			
Gasoline Range Organics	ND	50.0	100	ug/L	1	10/14/16 14:36	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	"	"	"	
1,4-Difluorobenzene (Sur)			*93 %*	*Limits: 50-150 %*	"	"	"	
MW-3-102016-D (A6J0465-05)			**Matrix: Water**		**Batch: 6100588**			
Gasoline Range Organics	ND	50.0	100	ug/L	1	10/14/16 15:04	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 100 %*	*Limits: 50-150 %*	"	"	"	
1,4-Difluorobenzene (Sur)			*93 %*	*Limits: 50-150 %*	"	"	"	
MW-1-102016 (A6J0465-06)			**Matrix: Water**		**Batch: 6100588**			
Gasoline Range Organics	ND	50.0	100	ug/L	1	10/14/16 15:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	"	"	"	
1,4-Difluorobenzene (Sur)			*93 %*	*Limits: 50-150 %*	"	"	"	

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Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01)			**Matrix: Water**		**Batch: 6100588**			
Acetone	ND	10.0	20.0	ug/L	1	10/14/16 13:41	EPA 8260B	
Acrolein	ND	5.00	10.0	"	"	"	"	
Benzene	ND	0.100	0.200	"	"	"	"	
Bromobenzene	ND	0.250	0.500	"	"	"	"	
Bromochloromethane	ND	0.500	1.00	"	"	"	"	
Bromodichloromethane	ND	0.500	1.00	"	"	"	"	
Bromoform	ND	0.500	1.00	"	"	"	"	
Bromomethane	ND	5.00	5.00	"	"	"	"	
2-Butanone (MEK)	ND	5.00	10.0	"	"	"	"	
n-Butylbenzene	ND	0.500	1.00	"	"	"	"	
sec-Butylbenzene	ND	0.500	1.00	"	"	"	"	
tert-Butylbenzene	ND	0.500	1.00	"	"	"	"	
Carbon disulfide	ND	5.00	10.0	"	"	"	"	
Carbon tetrachloride	ND	0.500	1.00	"	"	"	"	
Chlorobenzene	ND	0.250	0.500	"	"	"	"	
Chloroethane	ND	5.00	5.00	"	"	"	"	
2-Chloroethyl vinyl ether	ND	5.00	10.0	"	"	"	"	
Chloroform	ND	0.500	1.00	"	"	"	"	
Chloromethane	ND	2.50	5.00	"	"	"	"	
2-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
4-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	"	"	
Dibromochloromethane	ND	0.500	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	"	"	
Dibromomethane	ND	0.500	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloroethane	ND	0.250	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	"	"	
1,1-Dichloroethene	ND	0.250	0.500	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
1,2-Dichloropropane	ND	0.250	0.500	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01)			**Matrix: Water**		**Batch: 6100588**			
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	"	EPA 8260B	
2,2-Dichloropropane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloropropene	ND	0.500	1.00	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
Ethylbenzene	ND	0.250	0.500	"	"	"	"	
Hexachlorobutadiene	ND	2.50	5.00	"	"	"	"	
2-Hexanone	ND	5.00	10.0	"	"	"	"	
Iodomethane	ND	10.0	10.0	"	"	"	"	
Isopropylbenzene	ND	0.500	1.00	"	"	"	"	
4-Isopropyltoluene	ND	0.500	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	"	"	
Methylene chloride	ND	1.50	3.00	"	"	"	"	
Naphthalene	ND	1.00	2.00	"	"	"	"	
n-Propylbenzene	ND	0.250	0.500	"	"	"	"	
Styrene	ND	0.500	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
Tetrachloroethene (PCE)	**0.600**	0.250	0.500	"	"	"	"	
Toluene	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	"	"	
Trichloroethene (TCE)	ND	0.250	0.500	"	"	"	"	
Trichlorofluoromethane	ND	1.00	2.00	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
Vinyl chloride	ND	0.250	0.500	"	"	"	"	
m,p-Xylene	ND	0.500	1.00	"	"	"	"	
o-Xylene	**0.260**	0.250	0.500	"	"	"	"	J
Acrylonitrile	ND	1.00	2.00	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 96 %*	*Limits: 80-120 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01)			**Matrix: Water**		**Batch: 6100588**			
Surrogate: Toluene-d8 (Surr)			*Recovery: 108 %*	*Limits: 80-120 %*	1	"	EPA 8260B	
4-Bromofluorobenzene (Surr)			*111 %*	*Limits: 80-120 %*	"	"	"	
MW-7-102016 (A6J0465-02)			**Matrix: Water**		**Batch: 6100588**			
Acetone	ND	10.0	20.0	ug/L	1	10/14/16 14:08	EPA 8260B	
Acrolein	ND	5.00	10.0	"	"	"	"	
Benzene	ND	0.100	0.200	"	"	"	"	
Bromobenzene	ND	0.250	0.500	"	"	"	"	
Bromochloromethane	ND	0.500	1.00	"	"	"	"	
Bromodichloromethane	ND	0.500	1.00	"	"	"	"	
Bromoform	ND	0.500	1.00	"	"	"	"	
Bromomethane	ND	5.00	5.00	"	"	"	"	
2-Butanone (MEK)	ND	5.00	10.0	"	"	"	"	
n-Butylbenzene	ND	0.500	1.00	"	"	"	"	
sec-Butylbenzene	ND	0.500	1.00	"	"	"	"	
tert-Butylbenzene	ND	0.500	1.00	"	"	"	"	
Carbon disulfide	ND	5.00	10.0	"	"	"	"	
Carbon tetrachloride	ND	0.500	1.00	"	"	"	"	
Chlorobenzene	ND	0.250	0.500	"	"	"	"	
Chloroethane	ND	5.00	5.00	"	"	"	"	
2-Chloroethyl vinyl ether	ND	5.00	10.0	"	"	"	"	
Chloroform	ND	0.500	1.00	"	"	"	"	
Chloromethane	ND	2.50	5.00	"	"	"	"	
2-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
4-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	"	"	
Dibromochloromethane	ND	0.500	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	"	"	
Dibromomethane	ND	0.500	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloroethane	ND	0.250	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	"	"	
1,1-Dichloroethene	ND	0.250	0.500	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-7-102016 (A6J0465-02)			**Matrix: Water**		**Batch: 6100588**			
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	1	"	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
1,2-Dichloropropane	ND	0.250	0.500	"	"	"	"	
1,3-Dichloropropane	ND	0.500	1.00	"	"	"	"	
2,2-Dichloropropane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloropropene	ND	0.500	1.00	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
Ethylbenzene	ND	0.250	0.500	"	"	"	"	
Hexachlorobutadiene	ND	2.50	5.00	"	"	"	"	
2-Hexanone	ND	5.00	10.0	"	"	"	"	
Iodomethane	ND	10.0	10.0	"	"	"	"	
Isopropylbenzene	ND	0.500	1.00	"	"	"	"	
4-Isopropyltoluene	ND	0.500	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	"	"	
Methylene chloride	ND	1.50	3.00	"	"	"	"	
Naphthalene	ND	1.00	2.00	"	"	"	"	
n-Propylbenzene	ND	0.250	0.500	"	"	"	"	
Styrene	ND	0.500	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
Tetrachloroethene (PCE)	**0.850**	0.250	0.500	"	"	"	"	
Toluene	**0.530**	0.500	1.00	"	"	"	"	J
1,2,3-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	"	"	
Trichloroethene (TCE)	ND	0.250	0.500	"	"	"	"	
Trichlorofluoromethane	ND	1.00	2.00	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
Vinyl chloride	ND	0.250	0.500	"	"	"	"	
m,p-Xylene	ND	0.500	1.00	"	"	"	"	

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Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-7-102016 (A6J0465-02)			**Matrix: Water**		**Batch: 6100588**			
o-Xylene	**0.250**	0.250	0.500	ug/L	1	"	EPA 8260B	J
Acrylonitrile	ND	1.00	2.00	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 97 %*	*Limits: 80-120 %*	"	"	"	
Toluene-d8 (Surr)			*108 %*	*Limits: 80-120 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*115 %*	*Limits: 80-120 %*	"	"	"	
Trip Blank (A6J0465-03)			**Matrix: Water**		**Batch: 6100588**			**A-03**
Acetone	ND	10.0	20.0	ug/L	1	10/14/16 13:13	EPA 8260B	
Benzene	ND	0.100	0.200	"	"	"	"	
Bromobenzene	ND	0.250	0.500	"	"	"	"	
Bromochloromethane	ND	0.500	1.00	"	"	"	"	
Bromodichloromethane	ND	0.500	1.00	"	"	"	"	
Bromoform	ND	0.500	1.00	"	"	"	"	
Bromomethane	ND	5.00	5.00	"	"	"	"	
2-Butanone (MEK)	ND	5.00	10.0	"	"	"	"	
n-Butylbenzene	ND	0.500	1.00	"	"	"	"	
sec-Butylbenzene	ND	0.500	1.00	"	"	"	"	
tert-Butylbenzene	ND	0.500	1.00	"	"	"	"	
Carbon disulfide	ND	5.00	10.0	"	"	"	"	
Carbon tetrachloride	ND	0.500	1.00	"	"	"	"	
Chlorobenzene	ND	0.250	0.500	"	"	"	"	
Chloroethane	ND	5.00	5.00	"	"	"	"	
Chloroform	ND	0.500	1.00	"	"	"	"	
Chloromethane	ND	2.50	5.00	"	"	"	"	
2-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
4-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	"	"	
Dibromochloromethane	ND	0.500	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	"	"	
Dibromomethane	ND	0.500	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloroethane	ND	0.250	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Trip Blank (A6J0465-03)			**Matrix: Water**		**Batch: 6100588**			**A-03**
1,1-Dichloroethene	ND	0.250	0.500	ug/L	1	"	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
1,2-Dichloropropane	ND	0.250	0.500	"	"	"	"	
1,3-Dichloropropane	ND	0.500	1.00	"	"	"	"	
2,2-Dichloropropane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloropropene	ND	0.500	1.00	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
Ethylbenzene	ND	0.250	0.500	"	"	"	"	
Hexachlorobutadiene	ND	2.50	5.00	"	"	"	"	
2-Hexanone	ND	5.00	10.0	"	"	"	"	
Iodomethane	ND	10.0	10.0	"	"	"	"	
Isopropylbenzene	ND	0.500	1.00	"	"	"	"	
4-Isopropyltoluene	ND	0.500	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	"	"	
Methylene chloride	ND	1.50	3.00	"	"	"	"	
Naphthalene	ND	1.00	2.00	"	"	"	"	
n-Propylbenzene	ND	0.250	0.500	"	"	"	"	
Styrene	ND	0.500	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.250	0.500	"	"	"	"	
Toluene	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	"	"	
Trichloroethene (TCE)	ND	0.250	0.500	"	"	"	"	
Trichlorofluoromethane	ND	1.00	2.00	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
Vinyl chloride	ND	0.250	0.500	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Trip Blank (A6J0465-03)			**Matrix: Water**		**Batch: 6100588**			**A-03**
m,p-Xylene	ND	0.500	1.00	ug/L	1	"	EPA 8260B	
o-Xylene	ND	0.250	0.500	"	"	"	"	
Acrylonitrile	ND	1.00	2.00	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 96 %*	*Limits: 80-120 %*	"	"	"	
Toluene-d8 (Surr)			*109 %*	*Limits: 80-120 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*114 %*	*Limits: 80-120 %*	"	"	"	
MW-3-102016 (A6J0465-04)			**Matrix: Water**		**Batch: 6100588**			
Acetone	ND	10.0	20.0	ug/L	1	10/14/16 14:36	EPA 8260B	
Acrolein	ND	5.00	10.0	"	"	"	"	
Benzene	ND	0.100	0.200	"	"	"	"	
Bromobenzene	ND	0.250	0.500	"	"	"	"	
Bromochloromethane	ND	0.500	1.00	"	"	"	"	
Bromodichloromethane	ND	0.500	1.00	"	"	"	"	
Bromoform	ND	0.500	1.00	"	"	"	"	
Bromomethane	ND	5.00	5.00	"	"	"	"	
2-Butanone (MEK)	ND	5.00	10.0	"	"	"	"	
n-Butylbenzene	ND	0.500	1.00	"	"	"	"	
sec-Butylbenzene	ND	0.500	1.00	"	"	"	"	
tert-Butylbenzene	ND	0.500	1.00	"	"	"	"	
Carbon disulfide	ND	5.00	10.0	"	"	"	"	
Carbon tetrachloride	ND	0.500	1.00	"	"	"	"	
Chlorobenzene	ND	0.250	0.500	"	"	"	"	
Chloroethane	ND	5.00	5.00	"	"	"	"	
2-Chloroethyl vinyl ether	ND	5.00	10.0	"	"	"	"	
Chloroform	ND	0.500	1.00	"	"	"	"	
Chloromethane	ND	2.50	5.00	"	"	"	"	
2-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
4-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	"	"	
Dibromochloromethane	ND	0.500	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	"	"	
Dibromomethane	ND	0.500	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-3-102016 (A6J0465-04)			**Matrix: Water**		**Batch: 6100588**			
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	"	EPA 8260B	
1,1-Dichloroethane	ND	0.250	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	"	"	
1,1-Dichloroethene	ND	0.250	0.500	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
1,2-Dichloropropane	ND	0.250	0.500	"	"	"	"	
1,3-Dichloropropane	ND	0.500	1.00	"	"	"	"	
2,2-Dichloropropane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloropropene	ND	0.500	1.00	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
Ethylbenzene	ND	0.250	0.500	"	"	"	"	
Hexachlorobutadiene	ND	2.50	5.00	"	"	"	"	
2-Hexanone	ND	5.00	10.0	"	"	"	"	
Iodomethane	ND	10.0	10.0	"	"	"	"	
Isopropylbenzene	ND	0.500	1.00	"	"	"	"	
4-Isopropyltoluene	ND	0.500	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	"	"	
Methylene chloride	ND	1.50	3.00	"	"	"	"	
Naphthalene	ND	1.00	2.00	"	"	"	"	
n-Propylbenzene	ND	0.250	0.500	"	"	"	"	
Styrene	ND	0.500	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
Tetrachloroethene (PCE)	**1.19**	0.250	0.500	"	"	"	"	
Toluene	**0.510**	0.500	1.00	"	"	"	"	J
1,2,3-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	"	"	
Trichloroethene (TCE)	**0.560**	0.250	0.500	"	"	"	"	
Trichlorofluoromethane	ND	1.00	2.00	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-3-102016 (A6J0465-04)			**Matrix: Water**		**Batch: 6100588**			
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	"	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
Vinyl chloride	ND	0.250	0.500	"	"	"	"	
m,p-Xylene	ND	0.500	1.00	"	"	"	"	
o-Xylene	ND	0.250	0.500	"	"	"	"	
Acrylonitrile	ND	1.00	2.00	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 98 %*	*Limits: 80-120 %*	"	"	"	
Toluene-d8 (Surr)			*108 %*	*Limits: 80-120 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*114 %*	*Limits: 80-120 %*	"	"	"	
MW-3-102016-D (A6J0465-05)			**Matrix: Water**		**Batch: 6100588**			
Acetone	ND	10.0	20.0	ug/L	1	10/14/16 15:04	EPA 8260B	
Acrolein	ND	5.00	10.0	"	"	"	"	
Benzene	ND	0.100	0.200	"	"	"	"	
Bromobenzene	ND	0.250	0.500	"	"	"	"	
Bromochloromethane	ND	0.500	1.00	"	"	"	"	
Bromodichloromethane	ND	0.500	1.00	"	"	"	"	
Bromoform	ND	0.500	1.00	"	"	"	"	
Bromomethane	ND	5.00	5.00	"	"	"	"	
2-Butanone (MEK)	ND	5.00	10.0	"	"	"	"	
n-Butylbenzene	ND	0.500	1.00	"	"	"	"	
sec-Butylbenzene	ND	0.500	1.00	"	"	"	"	
tert-Butylbenzene	ND	0.500	1.00	"	"	"	"	
Carbon disulfide	ND	5.00	10.0	"	"	"	"	
Carbon tetrachloride	ND	0.500	1.00	"	"	"	"	
Chlorobenzene	ND	0.250	0.500	"	"	"	"	
Chloroethane	ND	5.00	5.00	"	"	"	"	
2-Chloroethyl vinyl ether	ND	5.00	10.0	"	"	"	"	
Chloroform	ND	0.500	1.00	"	"	"	"	
Chloromethane	ND	2.50	5.00	"	"	"	"	
2-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
4-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	"	"	
Dibromochloromethane	ND	0.500	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	"	"	
Dibromomethane	ND	0.500	1.00	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-3-102016-D (A6J0465-05)			**Matrix: Water**		**Batch: 6100588**			
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	"	EPA 8260B	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloroethane	ND	0.250	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	"	"	
1,1-Dichloroethene	ND	0.250	0.500	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
1,2-Dichloropropane	ND	0.250	0.500	"	"	"	"	
1,3-Dichloropropane	ND	0.500	1.00	"	"	"	"	
2,2-Dichloropropane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloropropene	ND	0.500	1.00	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
Ethylbenzene	ND	0.250	0.500	"	"	"	"	
Hexachlorobutadiene	ND	2.50	5.00	"	"	"	"	
2-Hexanone	ND	5.00	10.0	"	"	"	"	
Iodomethane	ND	10.0	10.0	"	"	"	"	
Isopropylbenzene	ND	0.500	1.00	"	"	"	"	
4-Isopropyltoluene	ND	0.500	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	"	"	
Methylene chloride	ND	1.50	3.00	"	"	"	"	
Naphthalene	ND	1.00	2.00	"	"	"	"	
n-Propylbenzene	ND	0.250	0.500	"	"	"	"	
Styrene	ND	0.500	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
Tetrachloroethene (PCE)	**1.13**	0.250	0.500	"	"	"	"	
Toluene	**0.540**	0.500	1.00	"	"	"	"	J
1,2,3-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-3-102016-D (A6J0465-05)			**Matrix: Water**		**Batch: 6100588**			
Trichloroethene (TCE)	**0.500**	0.250	0.500	ug/L	1	"	EPA 8260B	
Trichlorofluoromethane	ND	1.00	2.00	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
Vinyl chloride	ND	0.250	0.500	"	"	"	"	
m,p-Xylene	ND	0.500	1.00	"	"	"	"	
o-Xylene	**0.250**	0.250	0.500	"	"	"	"	J
Acrylonitrile	ND	1.00	2.00	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 98 %*	*Limits: 80-120 %*	"	"	"	
Toluene-d8 (Surr)			*108 %*	*Limits: 80-120 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*113 %*	*Limits: 80-120 %*	"	"	"	
MW-1-102016 (A6J0465-06)			**Matrix: Water**		**Batch: 6100588**			
Acetone	ND	10.0	20.0	ug/L	1	10/14/16 15:31	EPA 8260B	
Acrolein	ND	5.00	10.0	"	"	"	"	
Benzene	ND	0.100	0.200	"	"	"	"	
Bromobenzene	ND	0.250	0.500	"	"	"	"	
Bromochloromethane	ND	0.500	1.00	"	"	"	"	
Bromodichloromethane	ND	0.500	1.00	"	"	"	"	
Bromoform	ND	0.500	1.00	"	"	"	"	
Bromomethane	ND	5.00	5.00	"	"	"	"	
2-Butanone (MEK)	ND	5.00	10.0	"	"	"	"	
n-Butylbenzene	ND	0.500	1.00	"	"	"	"	
sec-Butylbenzene	ND	0.500	1.00	"	"	"	"	
tert-Butylbenzene	ND	0.500	1.00	"	"	"	"	
Carbon disulfide	ND	5.00	10.0	"	"	"	"	
Carbon tetrachloride	ND	0.500	1.00	"	"	"	"	
Chlorobenzene	ND	0.250	0.500	"	"	"	"	
Chloroethane	ND	5.00	5.00	"	"	"	"	
2-Chloroethyl vinyl ether	ND	5.00	10.0	"	"	"	"	
Chloroform	ND	0.500	1.00	"	"	"	"	
Chloromethane	ND	2.50	5.00	"	"	"	"	
2-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
4-Chlorotoluene	ND	0.500	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-1-102016 (A6J0465-06)			**Matrix: Water**		**Batch: 6100588**			
Dibromochloromethane	ND	0.500	1.00	ug/L	1	"	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	"	"	
Dibromomethane	ND	0.500	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloroethane	ND	0.250	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	"	"	"	"	
1,1-Dichloroethene	ND	0.250	0.500	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	"	"	
1,2-Dichloropropane	ND	0.250	0.500	"	"	"	"	
1,3-Dichloropropane	ND	0.500	1.00	"	"	"	"	
2,2-Dichloropropane	ND	0.500	1.00	"	"	"	"	
1,1-Dichloropropene	ND	0.500	1.00	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	"	"	
Ethylbenzene	ND	0.250	0.500	"	"	"	"	
Hexachlorobutadiene	ND	2.50	5.00	"	"	"	"	
2-Hexanone	ND	5.00	10.0	"	"	"	"	
Iodomethane	ND	10.0	10.0	"	"	"	"	
Isopropylbenzene	ND	0.500	1.00	"	"	"	"	
4-Isopropyltoluene	ND	0.500	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	"	"	
Methylene chloride	ND	1.50	3.00	"	"	"	"	
Naphthalene	ND	1.00	2.00	"	"	"	"	
n-Propylbenzene	ND	0.250	0.500	"	"	"	"	
Styrene	ND	0.500	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	"	"	
Tetrachloroethene (PCE)	**0.530**	0.250	0.500	"	"	"	"	
Toluene	ND	0.500	1.00	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	2.00	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-1-102016 (A6J0465-06)			**Matrix: Water**		**Batch: 6100588**			
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	"	EPA 8260B	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	"	"	
Trichloroethene (TCE)	**0.310**	0.250	0.500	"	"	"	"	J
Trichlorofluoromethane	ND	1.00	2.00	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	"	"	
Vinyl chloride	ND	0.250	0.500	"	"	"	"	
m,p-Xylene	ND	0.500	1.00	"	"	"	"	
o-Xylene	**0.260**	0.250	0.500	"	"	"	"	J
Acrylonitrile	ND	1.00	2.00	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 98 %*	*Limits: 80-120 %*	"	"	"	
Toluene-d8 (Surr)			*109 %*	*Limits: 80-120 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*113 %*	*Limits: 80-120 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01)			**Matrix: Water**		**Batch: 6100981**			**C-07**
Aroclor 1016	ND	0.0476	0.0952	ug/L	1	10/27/16 08:34	EPA 8082A	
Aroclor 1221	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1232	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1242	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1248	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1254	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1260	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1262	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1268	ND	0.0476	0.0952	"	"	"	"	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 86 %*	*Limits: 58-120 %*	"	"	"	
MW-7-102016 (A6J0465-02)			**Matrix: Water**		**Batch: 6100981**			**C-07**
Aroclor 1016	ND	0.0476	0.0952	ug/L	1	10/27/16 08:51	EPA 8082A	
Aroclor 1221	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1232	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1242	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1248	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1254	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1260	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1262	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1268	ND	0.0476	0.0952	"	"	"	"	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 81 %*	*Limits: 58-120 %*	"	"	"	
MW-3-102016 (A6J0465-04)			**Matrix: Water**		**Batch: 6100981**			**C-07**
Aroclor 1016	ND	0.0476	0.0952	ug/L	1	10/27/16 09:09	EPA 8082A	
Aroclor 1221	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1232	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1242	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1248	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1254	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1260	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1262	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1268	ND	0.0476	0.0952	"	"	"	"	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 83 %*	*Limits: 58-120 %*	"	"	"	
MW-3-102016-D (A6J0465-05)			**Matrix: Water**		**Batch: 6100981**			**C-07**
Aroclor 1016	ND	0.0476	0.0952	ug/L	1	10/27/16 09:27	EPA 8082A	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-3-102016-D (A6J0465-05)			**Matrix: Water**		**Batch: 6100981**			**C-07**
Aroclor 1221	ND	0.0476	0.0952	ug/L	1	"	EPA 8082A	
Aroclor 1232	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1242	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1248	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1254	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1260	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1262	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1268	ND	0.0476	0.0952	"	"	"	"	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 89 %*	*Limits: 58-120 %*	"	"	"	
MW-1-102016 (A6J0465-06)			**Matrix: Water**		**Batch: 6100981**			**C-07**
Aroclor 1016	ND	0.0476	0.0952	ug/L	1	10/27/16 09:45	EPA 8082A	
Aroclor 1221	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1232	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1242	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1248	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1254	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1260	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1262	ND	0.0476	0.0952	"	"	"	"	
Aroclor 1268	ND	0.0476	0.0952	"	"	"	"	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 89 %*	*Limits: 58-120 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01)			**Matrix: Water**		**Batch: 6100776**			
Aldrin	ND	0.00476	0.00952	ug/L	1	10/26/16 14:36	EPA 8081B	
alpha-BHC	ND	0.00476	0.00952	"	"	"	"	
beta-BHC	ND	0.00476	0.00952	"	"	"	"	
delta-BHC	ND	0.00476	0.00952	"	"	"	"	
gamma-BHC (Lindane)	ND	0.00476	0.00952	"	"	"	"	
cis-Chlordane	ND	0.00476	0.00952	"	"	"	"	
trans-Chlordane	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDD	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDE	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDT	ND	0.00476	0.00952	"	"	"	"	
Dieldrin	ND	0.00476	0.00952	"	"	"	"	
Endosulfan I	ND	0.00476	0.00952	"	"	"	"	
Endosulfan II	ND	0.00476	0.00952	"	"	"	"	
Endosulfan sulfate	ND	0.00476	0.00952	"	"	"	"	
Endrin	ND	0.00476	0.00952	"	"	"	"	
Endrin Aldehyde	ND	0.00476	0.00952	"	"	"	"	
Endrin ketone	ND	0.00476	0.00952	"	"	"	"	
Heptachlor	ND	0.00476	0.00952	"	"	"	"	
Heptachlor epoxide	ND	0.00476	0.00952	"	"	"	"	
Methoxychlor	ND	0.0143	0.0286	"	"	"	"	
Chlordane (Technical)	ND	0.179	0.357	"	"	"	"	
Toxaphene (Total)	ND	0.179	0.357	"	"	"	"	
cis-Nonachlor	ND	0.00476	0.00952	"	"	"	"	
trans-Nonachlor	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDD	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDE	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDT	ND	0.00476	0.00952	"	"	"	"	
Hexachlorobenzene	ND	0.0143	0.0286	"	"	"	"	
Hexachlorobutadiene	ND	0.00476	0.00952	"	"	"	"	
Mirex	ND	0.00476	0.00952	"	"	"	"	
Oxychlordane	ND	0.00476	0.00952	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 81 %*	*Limits: 44-124 %*	"	"	"	
Decachlorobiphenyl (Surr)			*89 %*	*Limits: 47-129 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-7-102016 (A6J0465-02)			**Matrix: Water**		**Batch: 6100776**			
Aldrin	ND	0.00476	0.00952	ug/L	1	10/26/16 14:53	EPA 8081B	
alpha-BHC	ND	0.00476	0.00952	"	"	"	"	
beta-BHC	ND	0.00476	0.00952	"	"	"	"	
delta-BHC	ND	0.00476	0.00952	"	"	"	"	
gamma-BHC (Lindane)	ND	0.00476	0.00952	"	"	"	"	
cis-Chlordane	ND	0.00476	0.00952	"	"	"	"	
trans-Chlordane	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDD	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDE	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDT	ND	0.00476	0.00952	"	"	"	"	
Dieldrin	ND	0.00476	0.00952	"	"	"	"	
Endosulfan I	ND	0.00476	0.00952	"	"	"	"	
Endosulfan II	ND	0.00476	0.00952	"	"	"	"	
Endosulfan sulfate	ND	0.00476	0.00952	"	"	"	"	
Endrin	ND	0.00476	0.00952	"	"	"	"	
Endrin Aldehyde	ND	0.00476	0.00952	"	"	"	"	
Endrin ketone	ND	0.00476	0.00952	"	"	"	"	
Heptachlor	ND	0.00476	0.00952	"	"	"	"	
Heptachlor epoxide	ND	0.00476	0.00952	"	"	"	"	
Methoxychlor	ND	0.0143	0.0286	"	"	"	"	
Chlordane (Technical)	ND	0.179	0.357	"	"	"	"	
Toxaphene (Total)	ND	0.179	0.357	"	"	"	"	
cis-Nonachlor	ND	0.00476	0.00952	"	"	"	"	
trans-Nonachlor	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDD	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDE	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDT	ND	0.00476	0.00952	"	"	"	"	
Hexachlorobenzene	ND	0.0143	0.0286	"	"	"	"	
Hexachlorobutadiene	ND	0.00476	0.00952	"	"	"	"	
Mirex	ND	0.00476	0.00952	"	"	"	"	
Oxychlordane	ND	0.00476	0.00952	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 75 %*	*Limits: 44-124 %*	"	"	"	
Decachlorobiphenyl (Surr)			*89 %*	*Limits: 47-129 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-3-102016 (A6J0465-04)			**Matrix: Water**		**Batch: 6100776**			
Aldrin	ND	0.00476	0.00952	ug/L	1	10/26/16 15:10	EPA 8081B	
alpha-BHC	ND	0.00476	0.00952	"	"	"	"	
beta-BHC	ND	0.00476	0.00952	"	"	"	"	
delta-BHC	ND	0.00476	0.00952	"	"	"	"	
gamma-BHC (Lindane)	ND	0.00476	0.00952	"	"	"	"	
cis-Chlordane	ND	0.00476	0.00952	"	"	"	"	
trans-Chlordane	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDD	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDE	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDT	ND	0.00476	0.00952	"	"	"	"	
Dieldrin	ND	0.00476	0.00952	"	"	"	"	
Endosulfan I	ND	0.00476	0.00952	"	"	"	"	
Endosulfan II	ND	0.00476	0.00952	"	"	"	"	
Endosulfan sulfate	ND	0.00476	0.00952	"	"	"	"	
Endrin	ND	0.00476	0.00952	"	"	"	"	
Endrin Aldehyde	ND	0.00476	0.00952	"	"	"	"	
Endrin ketone	ND	0.00476	0.00952	"	"	"	"	
Heptachlor	ND	0.00476	0.00952	"	"	"	"	
Heptachlor epoxide	ND	0.00476	0.00952	"	"	"	"	
Methoxychlor	ND	0.0143	0.0286	"	"	"	"	
Chlordane (Technical)	ND	0.179	0.357	"	"	"	"	
Toxaphene (Total)	ND	0.179	0.357	"	"	"	"	
cis-Nonachlor	ND	0.00476	0.00952	"	"	"	"	
trans-Nonachlor	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDD	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDE	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDT	ND	0.00476	0.00952	"	"	"	"	
Hexachlorobenzene	ND	0.0143	0.0286	"	"	"	"	
Hexachlorobutadiene	ND	0.00476	0.00952	"	"	"	"	
Mirex	ND	0.00476	0.00952	"	"	"	"	
Oxychlordane	ND	0.00476	0.00952	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 73 %*	*Limits: 44-124 %*	"	"	"	
Decachlorobiphenyl (Surr)			*91 %*	*Limits: 47-129 %*	"	"	"	

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Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-3-102016-D (A6J0465-05)			**Matrix: Water**		**Batch: 6100776**			
Aldrin	ND	0.00476	0.00952	ug/L	1	10/26/16 15:28	EPA 8081B	
alpha-BHC	ND	0.00476	0.00952	"	"	"	"	
beta-BHC	ND	0.00476	0.00952	"	"	"	"	
delta-BHC	ND	0.00476	0.00952	"	"	"	"	
gamma-BHC (Lindane)	ND	0.00476	0.00952	"	"	"	"	
cis-Chlordane	ND	0.00476	0.00952	"	"	"	"	
trans-Chlordane	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDD	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDE	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDT	ND	0.00476	0.00952	"	"	"	"	
Dieldrin	ND	0.00476	0.00952	"	"	"	"	
Endosulfan I	ND	0.00476	0.00952	"	"	"	"	
Endosulfan II	ND	0.00476	0.00952	"	"	"	"	
Endosulfan sulfate	ND	0.00476	0.00952	"	"	"	"	
Endrin	ND	0.00476	0.00952	"	"	"	"	
Endrin Aldehyde	ND	0.00476	0.00952	"	"	"	"	
Endrin ketone	ND	0.00476	0.00952	"	"	"	"	
Heptachlor	ND	0.00476	0.00952	"	"	"	"	
Heptachlor epoxide	ND	0.00476	0.00952	"	"	"	"	
Methoxychlor	ND	0.0143	0.0286	"	"	"	"	
Chlordane (Technical)	ND	0.179	0.357	"	"	"	"	
Toxaphene (Total)	ND	0.179	0.357	"	"	"	"	
cis-Nonachlor	ND	0.00476	0.00952	"	"	"	"	
trans-Nonachlor	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDD	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDE	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDT	ND	0.00476	0.00952	"	"	"	"	
Hexachlorobenzene	ND	0.0143	0.0286	"	"	"	"	
Hexachlorobutadiene	ND	0.00476	0.00952	"	"	"	"	
Mirex	ND	0.00476	0.00952	"	"	"	"	
Oxychlordane	ND	0.00476	0.00952	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 81 %*	*Limits: 44-124 %*	"	"	"	
Decachlorobiphenyl (Surr)			*93 %*	*Limits: 47-129 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-1-102016 (A6J0465-06)			**Matrix: Water**		**Batch: 6100776**			
Aldrin	ND	0.00476	0.00952	ug/L	1	10/26/16 15:45	EPA 8081B	
alpha-BHC	ND	0.00476	0.00952	"	"	"	"	
beta-BHC	ND	0.00476	0.00952	"	"	"	"	
delta-BHC	ND	0.00476	0.00952	"	"	"	"	
gamma-BHC (Lindane)	ND	0.00476	0.00952	"	"	"	"	
cis-Chlordane	ND	0.00476	0.00952	"	"	"	"	
trans-Chlordane	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDD	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDE	ND	0.00476	0.00952	"	"	"	"	
4,4'-DDT	ND	0.00476	0.00952	"	"	"	"	
Dieldrin	ND	0.00476	0.00952	"	"	"	"	
Endosulfan I	ND	0.00476	0.00952	"	"	"	"	
Endosulfan II	ND	0.00476	0.00952	"	"	"	"	
Endosulfan sulfate	ND	0.00476	0.00952	"	"	"	"	
Endrin	ND	0.00476	0.00952	"	"	"	"	
Endrin Aldehyde	ND	0.00476	0.00952	"	"	"	"	
Endrin ketone	ND	0.00476	0.00952	"	"	"	"	
Heptachlor	ND	0.00476	0.00952	"	"	"	"	
Heptachlor epoxide	ND	0.00476	0.00952	"	"	"	"	
Methoxychlor	ND	0.0143	0.0286	"	"	"	"	
Chlordane (Technical)	ND	0.179	0.357	"	"	"	"	
Toxaphene (Total)	ND	0.179	0.357	"	"	"	"	
cis-Nonachlor	ND	0.00476	0.00952	"	"	"	"	
trans-Nonachlor	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDD	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDE	ND	0.00476	0.00952	"	"	"	"	
2,4'-DDT	ND	0.00476	0.00952	"	"	"	"	
Hexachlorobenzene	ND	0.0143	0.0286	"	"	"	"	
Hexachlorobutadiene	ND	0.00476	0.00952	"	"	"	"	
Mirex	ND	0.00476	0.00952	"	"	"	"	
Oxychlordane	ND	0.00476	0.00952	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 63 %*	*Limits: 44-124 %*	"	"	"	
Decachlorobiphenyl (Surr)			*92 %*	*Limits: 47-129 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01RE2)			**Matrix: Water**		**Batch: 6100689**			
Acenaphthene	ND	0.00952	0.0190	ug/L	1	10/19/16 13:30	EPA 8270D	
Acenaphthylene	ND	0.00952	0.0190	"	"	"	"	
Anthracene	ND	0.00952	0.0190	"	"	"	"	
Benz(a)anthracene	ND	0.00952	0.0190	"	"	"	"	
Benzo(a)pyrene	ND	0.0143	0.0286	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0143	0.0286	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0143	0.0286	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.00952	0.0190	"	"	"	"	
Chrysene	ND	0.00952	0.0190	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00952	0.0190	"	"	"	"	
Fluoranthene	ND	0.00952	0.0190	"	"	"	"	
Fluorene	ND	0.00952	0.0190	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00952	0.0190	"	"	"	"	
Naphthalene	**0.0192**	0.0190	0.0381	"	"	"	"	J
Phenanthrene	ND	0.00952	0.0190	"	"	"	"	
Pyrene	ND	0.00952	0.0190	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.190	0.381	"	"	"	"	
Butyl benzyl phthalate	ND	0.190	0.381	"	"	"	"	
Diethylphthalate	ND	0.190	0.381	"	"	"	"	
Dimethylphthalate	ND	0.190	0.381	"	"	"	"	
Di-n-butylphthalate	ND	0.190	0.381	"	"	"	"	
Di-n-octyl phthalate	ND	0.190	0.381	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			*Recovery: 48 %*	*Limits: 44-120 %*	"	"	"	
2-Fluorobiphenyl (Surr)			*59 %*	*Limits: 44-120 %*	"	"	"	
Phenol-d6 (Surr)			*17 %*	*Limits: 10-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*77 %*	*Limits: 50-133 %*	"	"	"	
2-Fluorophenol (Surr)			*28 %*	*Limits: 19-120 %*	"	"	"	
2,4,6-Tribromophenol (Surr)			*88 %*	*Limits: 43-140 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-7-102016 (A6J0465-02RE2)			**Matrix: Water**		**Batch: 6100792**			
Acenaphthene	ND	0.00962	0.0192	ug/L	1	10/21/16 12:32	EPA 8270D	
Acenaphthylene	ND	0.00962	0.0192	"	"	"	"	
Anthracene	**0.0107**	0.00962	0.0192	"	"	"	"	J
Benz(a)anthracene	ND	0.00962	0.0192	"	"	"	"	
Benzo(a)pyrene	ND	0.0144	0.0288	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0144	0.0288	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0144	0.0288	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.00962	0.0192	"	"	"	"	
Chrysene	ND	0.00962	0.0192	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00962	0.0192	"	"	"	"	
Fluoranthene	ND	0.00962	0.0192	"	"	"	"	
Fluorene	ND	0.00962	0.0192	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00962	0.0192	"	"	"	"	
Naphthalene	ND	0.0192	0.0385	"	"	"	"	
Phenanthrene	ND	0.00962	0.0192	"	"	"	"	
Pyrene	ND	0.00962	0.0192	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.192	0.385	"	"	"	"	
Butyl benzyl phthalate	ND	0.192	0.385	"	"	"	"	
Diethylphthalate	ND	0.192	0.385	"	"	"	"	
Dimethylphthalate	ND	0.192	0.385	"	"	"	"	
Di-n-butylphthalate	ND	0.192	0.385	"	"	"	"	
Di-n-octyl phthalate	ND	0.192	0.385	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			*Recovery: 66 %*	*Limits: 44-120 %*	"	"	"	
2-Fluorobiphenyl (Surr)			*60 %*	*Limits: 44-120 %*	"	"	"	
Phenol-d6 (Surr)			*24 %*	*Limits: 10-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*87 %*	*Limits: 50-133 %*	"	"	"	
2-Fluorophenol (Surr)			*37 %*	*Limits: 19-120 %*	"	"	"	
2,4,6-Tribromophenol (Surr)			*102 %*	*Limits: 43-140 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-3-102016 (A6J0465-04RE2)			**Matrix: Water**		**Batch: 6100792**			
Acenaphthene	ND	0.00952	0.0190	ug/L	1	10/21/16 13:09	EPA 8270D	
Acenaphthylene	ND	0.00952	0.0190	"	"	"	"	
Anthracene	ND	0.00952	0.0190	"	"	"	"	
Benz(a)anthracene	ND	0.00952	0.0190	"	"	"	"	
Benzo(a)pyrene	ND	0.0143	0.0286	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0143	0.0286	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0143	0.0286	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.00952	0.0190	"	"	"	"	
Chrysene	ND	0.00952	0.0190	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00952	0.0190	"	"	"	"	
Fluoranthene	ND	0.00952	0.0190	"	"	"	"	
Fluorene	ND	0.00952	0.0190	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00952	0.0190	"	"	"	"	
Naphthalene	**0.0279**	0.0190	0.0381	"	"	"	"	J
Phenanthrene	ND	0.00952	0.0190	"	"	"	"	
Pyrene	ND	0.00952	0.0190	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.190	0.381	"	"	"	"	
Butyl benzyl phthalate	ND	0.190	0.381	"	"	"	"	
Diethylphthalate	ND	0.190	0.381	"	"	"	"	
Dimethylphthalate	ND	0.190	0.381	"	"	"	"	
Di-n-butylphthalate	ND	0.190	0.381	"	"	"	"	
Di-n-octyl phthalate	ND	0.190	0.381	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			*Recovery: 74 %*	*Limits: 44-120 %*	"	"	"	
2-Fluorobiphenyl (Surr)			*58 %*	*Limits: 44-120 %*	"	"	"	
Phenol-d6 (Surr)			*26 %*	*Limits: 10-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*84 %*	*Limits: 50-133 %*	"	"	"	
2-Fluorophenol (Surr)			*41 %*	*Limits: 19-120 %*	"	"	"	
2,4,6-Tribromophenol (Surr)			*100 %*	*Limits: 43-140 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-3-102016-D (A6J0465-05RE1)			**Matrix: Water**		**Batch: 6100689**			
Acenaphthene	ND	0.00952	0.0190	ug/L	1	10/19/16 15:17	EPA 8270D	
Acenaphthylene	ND	0.00952	0.0190	"	"	"	"	
Anthracene	ND	0.00952	0.0190	"	"	"	"	
Benz(a)anthracene	ND	0.00952	0.0190	"	"	"	"	
Benzo(a)pyrene	ND	0.0143	0.0286	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0143	0.0286	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0143	0.0286	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.00952	0.0190	"	"	"	"	
Chrysene	ND	0.00952	0.0190	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00952	0.0190	"	"	"	"	
Fluoranthene	ND	0.00952	0.0190	"	"	"	"	
Fluorene	ND	0.00952	0.0190	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00952	0.0190	"	"	"	"	
Naphthalene	**0.0199**	0.0190	0.0381	"	"	"	"	J
Phenanthrene	ND	0.00952	0.0190	"	"	"	"	
Pyrene	ND	0.00952	0.0190	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.190	0.381	"	"	"	"	
Butyl benzyl phthalate	ND	0.190	0.381	"	"	"	"	
Diethylphthalate	ND	0.190	0.381	"	"	"	"	
Dimethylphthalate	ND	0.190	0.381	"	"	"	"	
Di-n-butylphthalate	ND	0.190	0.381	"	"	"	"	
Di-n-octyl phthalate	ND	0.190	0.381	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			*Recovery: 39 %*	*Limits: 44-120 %*	"	"	"	*S-06*
2-Fluorobiphenyl (Surr)			*51 %*	*Limits: 44-120 %*	"	"	"	
Phenol-d6 (Surr)			*14 %*	*Limits: 10-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*72 %*	*Limits: 50-133 %*	"	"	"	
2-Fluorophenol (Surr)			*23 %*	*Limits: 19-120 %*	"	"	"	
2,4,6-Tribromophenol (Surr)			*79 %*	*Limits: 43-140 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-1-102016 (A6J0465-06RE1)			**Matrix: Water**		**Batch: 6100689**			
Acenaphthene	ND	0.00952	0.0190	ug/L	1	10/19/16 15:52	EPA 8270D	
Acenaphthylene	ND	0.00952	0.0190	"	"	"	"	
Anthracene	**0.0110**	0.00952	0.0190	"	"	"	"	J
Benz(a)anthracene	ND	0.00952	0.0190	"	"	"	"	
Benzo(a)pyrene	ND	0.0143	0.0286	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0143	0.0286	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0143	0.0286	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.00952	0.0190	"	"	"	"	
Chrysene	ND	0.00952	0.0190	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00952	0.0190	"	"	"	"	
Fluoranthene	ND	0.00952	0.0190	"	"	"	"	
Fluorene	ND	0.00952	0.0190	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00952	0.0190	"	"	"	"	
Naphthalene	**0.0199**	0.0190	0.0381	"	"	"	"	J
Phenanthrene	ND	0.00952	0.0190	"	"	"	"	
Pyrene	ND	0.00952	0.0190	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.190	0.381	"	"	"	"	
Butyl benzyl phthalate	ND	0.190	0.381	"	"	"	"	
Diethylphthalate	ND	0.190	0.381	"	"	"	"	
Dimethylphthalate	ND	0.190	0.381	"	"	"	"	
Di-n-butylphthalate	ND	0.190	0.381	"	"	"	"	
Di-n-octyl phthalate	ND	0.190	0.381	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			*Recovery: 43 %*	*Limits: 44-120 %*	"	"	"	*S-06*
2-Fluorobiphenyl (Surr)			*52 %*	*Limits: 44-120 %*	"	"	"	
Phenol-d6 (Surr)			*15 %*	*Limits: 10-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*81 %*	*Limits: 50-133 %*	"	"	"	
2-Fluorophenol (Surr)			*24 %*	*Limits: 19-120 %*	"	"	"	
2,4,6-Tribromophenol (Surr)			*90 %*	*Limits: 43-140 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Total Hexavalent Chromium by EPA 7196A/SM3500-Cr B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01)			**Matrix: Water**		**Batch: 6100571**			
Hexavalent Chromium	ND	0.00500	0.00500	mg/L	1	10/14/16 07:40	EPA 7196A/SM3500-Cr B (mod)	
MW-7-102016 (A6J0465-02)			**Matrix: Water**		**Batch: 6100571**			
Hexavalent Chromium	ND	0.00500	0.00500	mg/L	1	10/14/16 07:40	EPA 7196A/SM3500-Cr B (mod)	
MW-3-102016 (A6J0465-04)			**Matrix: Water**		**Batch: 6100571**			
Hexavalent Chromium	ND	0.00500	0.00500	mg/L	1	10/14/16 07:40	EPA 7196A/SM3500-Cr B (mod)	
MW-3-102016-D (A6J0465-05)			**Matrix: Water**		**Batch: 6100571**			
Hexavalent Chromium	ND	0.00500	0.00500	mg/L	1	10/14/16 07:40	EPA 7196A/SM3500-Cr B (mod)	
MW-1-102016 (A6J0465-06)			**Matrix: Water**		**Batch: 6100571**			
Hexavalent Chromium	ND	0.00500	0.00500	mg/L	1	10/14/16 07:40	EPA 7196A/SM3500-Cr B (mod)	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01)			**Matrix: Water**					
Batch: 6100956								
Aluminum	**42.8**	25.0	50.0	ug/L	1	10/26/16 16:12	EPA 200.8	J
Antimony	ND	0.500	1.00	"	"	"	"	
Arsenic	**1.57**	0.500	1.00	"	"	"	"	
Barium	**23.4**	0.500	1.00	"	"	"	"	
Cadmium	ND	0.0400	0.200	"	"	"	"	
Chromium	ND	0.400	1.00	"	"	"	"	
Copper	ND	0.500	1.00	"	"	"	"	
Lead	ND	0.100	0.200	"	"	"	"	
Magnesium	**11100**	25.0	50.0	"	"	"	"	
Manganese	**82.9**	0.500	1.00	"	"	"	"	
Mercury	ND	0.0400	0.0800	"	"	"	"	
Nickel	**0.978**	0.500	1.00	"	"	"	"	J
Silver	ND	0.100	0.200	"	"	"	"	
Zinc	ND	2.00	4.00	"	"	"	"	
MW-7-102016 (A6J0465-02)			**Matrix: Water**					
Batch: 6100956								
Aluminum	**26.0**	25.0	50.0	ug/L	1	10/26/16 16:15	EPA 200.8	J
Antimony	ND	0.500	1.00	"	"	"	"	
Arsenic	**1.92**	0.500	1.00	"	"	"	"	
Barium	**23.6**	0.500	1.00	"	"	"	"	
Cadmium	ND	0.0400	0.200	"	"	"	"	
Chromium	**0.678**	0.400	1.00	"	"	"	"	J
Copper	ND	0.500	1.00	"	"	"	"	
Lead	ND	0.100	0.200	"	"	"	"	
Magnesium	**7580**	25.0	50.0	"	"	"	"	
Manganese	**180**	0.500	1.00	"	"	"	"	
Mercury	ND	0.0400	0.0800	"	"	"	"	
Nickel	**4.89**	0.500	1.00	"	"	"	"	
Silver	ND	0.100	0.200	"	"	"	"	
Zinc	ND	2.00	4.00	"	"	"	"	
MW-3-102016 (A6J0465-04)			**Matrix: Water**					
Batch: 6100956								
Aluminum	ND	25.0	50.0	ug/L	1	10/26/16 16:18	EPA 200.8	
Antimony	ND	0.500	1.00	"	"	"	"	

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PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-3-102016 (A6J0465-04)			**Matrix: Water**					
Arsenic	**1.31**	0.500	1.00	ug/L	1	"	EPA 200.8	
Barium	**32.9**	0.500	1.00	"	"	"	"	
Cadmium	**0.0556**	0.0400	0.200	"	"	"	"	J
Chromium	**0.844**	0.400	1.00	"	"	"	"	J
Copper	**51.2**	0.500	1.00	"	"	"	"	
Lead	ND	0.100	0.200	"	"	"	"	
Magnesium	**15000**	25.0	50.0	"	"	"	"	
Manganese	**131**	0.500	1.00	"	"	"	"	
Mercury	ND	0.0400	0.0800	"	"	"	"	
Nickel	**1.79**	0.500	1.00	"	"	"	"	
Silver	ND	0.100	0.200	"	"	"	"	
Zinc	**2.10**	2.00	4.00	"	"	"	"	J
MW-3-102016-D (A6J0465-05)			**Matrix: Water**					
Batch: 6100956								
Aluminum	ND	25.0	50.0	ug/L	1	10/26/16 16:21	EPA 200.8	
Antimony	ND	0.500	1.00	"	"	"	"	
Arsenic	**1.04**	0.500	1.00	"	"	"	"	
Barium	**33.8**	0.500	1.00	"	"	"	"	
Cadmium	**0.0667**	0.0400	0.200	"	"	"	"	J
Chromium	**0.511**	0.400	1.00	"	"	"	"	J
Copper	ND	0.500	1.00	"	"	"	"	
Lead	ND	0.100	0.200	"	"	"	"	
Magnesium	**15300**	25.0	50.0	"	"	"	"	
Manganese	**137**	0.500	1.00	"	"	"	"	
Mercury	ND	0.0400	0.0800	"	"	"	"	
Nickel	**1.80**	0.500	1.00	"	"	"	"	
Silver	ND	0.100	0.200	"	"	"	"	
Zinc	ND	2.00	4.00	"	"	"	"	
MW-1-102016 (A6J0465-06)			**Matrix: Water**					
Batch: 6100956								
Aluminum	**279**	25.0	50.0	ug/L	1	10/26/16 16:24	EPA 200.8	
Antimony	ND	0.500	1.00	"	"	"	"	
Arsenic	**1.31**	0.500	1.00	"	"	"	"	
Barium	**45.7**	0.500	1.00	"	"	"	"	
Cadmium	ND	0.0400	0.200	"	"	"	"	

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PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-1-102016 (A6J0465-06)			**Matrix: Water**					
Chromium	**0.589**	0.400	1.00	ug/L	1	"	EPA 200.8	J
Copper	**0.878**	0.500	1.00	"	"	"	"	J
Lead	**0.156**	0.100	0.200	"	"	"	"	J
Magnesium	**14700**	25.0	50.0	"	"	"	"	
Manganese	**341**	0.500	1.00	"	"	"	"	
Mercury	ND	0.0400	0.0800	"	"	"	"	
Nickel	**1.83**	0.500	1.00	"	"	"	"	
Silver	ND	0.100	0.200	"	"	"	"	
Zinc	**2.63**	2.00	4.00	"	"	"	"	J

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PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-2-102016 (A6J0465-01)			**Matrix: Water**					
Batch: 6100704								
Total Organic Carbon	**1.58**	1.00	1.00	mg/L	1	10/19/16 05:43	SM 5310 B	
MW-7-102016 (A6J0465-02)			**Matrix: Water**					
Batch: 6100704								
Total Organic Carbon	**2.14**	1.00	1.00	mg/L	1	10/19/16 05:43	SM 5310 B	
MW-3-102016 (A6J0465-04)			**Matrix: Water**					
Batch: 6100704								
Total Organic Carbon	**2.34**	1.00	1.00	mg/L	1	10/19/16 05:43	SM 5310 B	
MW-3-102016-D (A6J0465-05)			**Matrix: Water**					
Batch: 6100704								
Total Organic Carbon	**2.57**	1.00	1.00	mg/L	1	10/19/16 05:43	SM 5310 B	
MW-1-102016 (A6J0465-06)			**Matrix: Water**					
Batch: 6100704								
Total Organic Carbon	**2.25**	1.00	1.00	mg/L	1	10/19/16 05:43	SM 5310 B	

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PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100684 - EPA 3510C (Fuels/Acid Ext.)									**Water**			
Blank (6100684-BLK1)					Prepared: 10/18/16 09:12 Analyzed: 10/18/16 18:21							
NWTPH-Dx												
Diesel	ND	36.4	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	72.7	145	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 89 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS (6100684-BS1)					Prepared: 10/18/16 09:12 Analyzed: 10/18/16 18:43							
NWTPH-Dx												
Diesel	356	40.0	80.0	ug/L	1	500	---	71	52-120%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 78 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS Dup (6100684-BSD1)					Prepared: 10/18/16 09:12 Analyzed: 10/18/16 19:05							**Q-19**
NWTPH-Dx												
Diesel	494	40.0	80.0	ug/L	1	500	---	99	52-120%	32	20%	Q-24
Surr: o-Terphenyl (Surr)			*Recovery: 84 %*	*Limits: 50-150 %*			*Dilution: 1x*					
Batch 6100791 - EPA 3510C (Fuels/Acid Ext.)									**Water**			
Blank (6100791-BLK1)					Prepared: 10/20/16 08:24 Analyzed: 10/20/16 18:07							
NWTPH-Dx												
Diesel	ND	36.4	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	72.7	145	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 101 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS (6100791-BS1)					Prepared: 10/20/16 08:24 Analyzed: 10/20/16 18:27							
NWTPH-Dx												
Diesel	402	40.0	80.0	ug/L	1	500	---	80	52-120%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 94 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS Dup (6100791-BSD1)					Prepared: 10/20/16 08:24 Analyzed: 10/20/16 18:48							**Q-19**
NWTPH-Dx												
Diesel	434	40.0	80.0	ug/L	1	500	---	87	52-120%	8	20%	
Surr: o-Terphenyl (Surr)			*Recovery: 100 %*	*Limits: 50-150 %*			*Dilution: 1x*					

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100588 - EPA 5030B									Water			
Blank (6100588-BLK1)					Prepared: 10/14/16 09:59 Analyzed: 10/14/16 12:18							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 97 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*91 %*	*50-150 %*			*"*					
LCS (6100588-BS2)					Prepared: 10/14/16 09:59 Analyzed: 10/14/16 11:50							
NWTPH-Gx (MS)												
Gasoline Range Organics	431	50.0	100	ug/L	1	500	---	86	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 95 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*96 %*	*50-150 %*			*"*					

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PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100588 - EPA 5030B							**Water**					
Blank (6100588-BLK1)					Prepared: 10/14/16 09:59 Analyzed: 10/14/16 12:18							
EPA 8260B												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrolein	ND	5.00	10.0	"	"	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	"	"	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	"	"	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	"	"	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	"	"	---	---	---	---	---	---	
2-Chloroethyl vinyl ether	ND	5.00	10.0	"	"	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	"	"	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	"	"	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	

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PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100588 - EPA 5030B							**Water**					
Blank (6100588-BLK1)					Prepared: 10/14/16 09:59 Analyzed: 10/14/16 12:18							
1,2-Dichloroethane (EDC)	ND	0.250	0.500	ug/L	"	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,2-Dichloropropane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	"	"	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	"	"	---	---	---	---	---	---	
Iodomethane	ND	10.0	10.0	"	"	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	"	"	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Methylene chloride	ND	1.50	3.00	"	"	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	"	"	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	"	"	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	"	"	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100588 - EPA 5030B									**Water**			
Blank (6100588-BLK1)					Prepared: 10/14/16 09:59 Analyzed: 10/14/16 12:18							
Trichloroethene (TCE)	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	"	"	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Vinyl chloride	ND	0.250	0.500	"	"	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	"	"	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	"	"	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 97 %*		*Limits: 80-120 %*				*Dilution: 1x*			
Toluene-d8 (Surr)			*108 %*		*80-120 %*				*"*			
4-Bromofluorobenzene (Surr)			*113 %*		*80-120 %*				*"*			
LCS (6100588-BS1)					Prepared: 10/14/16 09:59 Analyzed: 10/14/16 11:22							
EPA 8260B												
Acetone	30.0	10.0	20.0	ug/L	1	40.0	---	75	70-130%	---	---	
Acrolein	17.1	5.00	10.0	"	"	20.0	---	85	"	---	---	
Benzene	17.0	0.100	0.200	"	"	"	---	85	"	---	---	
Bromobenzene	20.2	0.250	0.500	"	"	"	---	101	"	---	---	
Bromochloromethane	15.9	0.500	1.00	"	"	"	---	79	"	---	---	
Bromodichloromethane	17.7	0.500	1.00	"	"	"	---	89	"	---	---	
Bromoform	19.1	0.500	1.00	"	"	"	---	96	"	---	---	
Bromomethane	24.2	5.00	5.00	"	"	"	---	121	"	---	---	
2-Butanone (MEK)	32.0	5.00	10.0	"	"	40.0	---	80	"	---	---	
n-Butylbenzene	19.1	0.500	1.00	"	"	20.0	---	96	"	---	---	
sec-Butylbenzene	19.9	0.500	1.00	"	"	"	---	100	"	---	---	
tert-Butylbenzene	19.5	0.500	1.00	"	"	"	---	98	"	---	---	
Carbon tetrachloride	18.2	0.500	1.00	"	"	"	---	91	"	---	---	
Chlorobenzene	20.1	0.250	0.500	"	"	"	---	100	"	---	---	
Chloroethane	22.1	5.00	5.00	"	"	"	---	110	"	---	---	
2-Chloroethyl vinyl ether	11.8	5.00	10.0	"	"	"	---	59	"	---	---	Q-31
Chloroform	18.1	0.500	1.00	"	"	"	---	90	"	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100588 - EPA 5030B							**Water**					
LCS (6100588-BS1)					Prepared: 10/14/16 09:59 Analyzed: 10/14/16 11:22							
Chloromethane	23.7	2.50	5.00	ug/L	"	"	---	119	"	---	---	
2-Chlorotoluene	19.7	0.500	1.00	"	"	"	---	99	"	---	---	
4-Chlorotoluene	19.4	0.500	1.00	"	"	"	---	97	"	---	---	
1,2-Dibromo-3-chloropropane	17.9	2.50	5.00	"	"	"	---	90	"	---	---	
Dibromochloromethane	20.6	0.500	1.00	"	"	"	---	103	"	---	---	
1,2-Dibromoethane (EDB)	20.0	0.250	0.500	"	"	"	---	100	"	---	---	
Dibromomethane	17.1	0.500	1.00	"	"	"	---	86	"	---	---	
1,2-Dichlorobenzene	20.4	0.250	0.500	"	"	"	---	102	"	---	---	
1,3-Dichlorobenzene	20.4	0.250	0.500	"	"	"	---	102	"	---	---	
1,4-Dichlorobenzene	19.9	0.250	0.500	"	"	"	---	99	"	---	---	
Dichlorodifluoromethane	25.6	0.500	1.00	"	"	"	---	128	"	---	---	Q-41
1,1-Dichloroethane	16.6	0.250	0.500	"	"	"	---	83	"	---	---	
1,2-Dichloroethane (EDC)	17.2	0.250	0.500	"	"	"	---	86	"	---	---	
1,1-Dichloroethene	16.3	0.250	0.500	"	"	"	---	81	"	---	---	
cis-1,2-Dichloroethene	16.6	0.250	0.500	"	"	"	---	83	"	---	---	
trans-1,2-Dichloroethene	16.5	0.250	0.500	"	"	"	---	82	"	---	---	
1,2-Dichloropropane	16.8	0.250	0.500	"	"	"	---	84	"	---	---	
1,3-Dichloropropane	18.6	0.500	1.00	"	"	"	---	93	"	---	---	
2,2-Dichloropropane	20.0	0.500	1.00	"	"	"	---	100	"	---	---	
1,1-Dichloropropene	18.3	0.500	1.00	"	"	"	---	92	"	---	---	
cis-1,3-Dichloropropene	19.5	0.500	1.00	"	"	"	---	97	"	---	---	
trans-1,3-Dichloropropene	19.8	0.500	1.00	"	"	"	---	99	"	---	---	
Ethylbenzene	20.4	0.250	0.500	"	"	"	---	102	"	---	---	
Hexachlorobutadiene	19.0	2.50	5.00	"	"	"	---	95	"	---	---	
2-Hexanone	34.6	5.00	10.0	"	"	40.0	---	87	"	---	---	
Iodomethane	34.3	10.0	10.0	"	"	"	---	86	"	---	---	
Isopropylbenzene	20.8	0.500	1.00	"	"	20.0	---	104	"	---	---	
4-Isopropyltoluene	20.3	0.500	1.00	"	"	"	---	101	"	---	---	
4-Methyl-2-pentanone (MiBK)	35.9	5.00	10.0	"	"	40.0	---	90	"	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100588 - EPA 5030B								**Water**				
LCS (6100588-BS1)					Prepared: 10/14/16 09:59 Analyzed: 10/14/16 11:22							
Methyl tert-butyl ether (MTBE)	18.0	0.500	1.00	ug/L	"	20.0	---	90	"	---	---	
Methylene chloride	17.3	1.50	3.00	"	"	"	---	87	"	---	---	
Naphthalene	18.7	1.00	2.00	"	"	"	---	94	"	---	---	
n-Propylbenzene	19.6	0.250	0.500	"	"	"	---	98	"	---	---	
Styrene	19.0	0.500	1.00	"	"	"	---	95	"	---	---	
1,1,1,2-Tetrachloroethane	19.7	0.250	0.500	"	"	"	---	99	"	---	---	
1,1,2,2-Tetrachloroethane	18.0	0.250	0.500	"	"	"	---	90	"	---	---	
Tetrachloroethene (PCE)	21.4	0.250	0.500	"	"	"	---	107	"	---	---	
Toluene	19.3	0.500	1.00	"	"	"	---	97	"	---	---	
1,2,3-Trichlorobenzene	18.8	1.00	2.00	"	"	"	---	94	"	---	---	
1,2,4-Trichlorobenzene	19.0	1.00	2.00	"	"	"	---	95	"	---	---	
1,1,1-Trichloroethane	18.6	0.250	0.500	"	"	"	---	93	"	---	---	
1,1,2-Trichloroethane	20.2	0.250	0.500	"	"	"	---	101	"	---	---	
Trichloroethene (TCE)	18.3	0.250	0.500	"	"	"	---	91	"	---	---	
Trichlorofluoromethane	22.0	1.00	2.00	"	"	"	---	110	"	---	---	
1,2,3-Trichloropropane	19.2	0.500	1.00	"	"	"	---	96	"	---	---	
1,2,4-Trimethylbenzene	20.4	0.500	1.00	"	"	"	---	102	"	---	---	
1,3,5-Trimethylbenzene	20.6	0.500	1.00	"	"	"	---	103	"	---	---	
Vinyl chloride	23.5	0.250	0.500	"	"	"	---	118	"	---	---	
m,p-Xylene	43.5	0.500	1.00	"	"	40.0	---	109	"	---	---	
o-Xylene	20.5	0.250	0.500	"	"	20.0	---	102	"	---	---	
Acrylonitrile	16.8	1.00	2.00	"	"	"	---	84	"	---	---	

Surr: 1,4-Difluorobenzene (Surr) *Recovery: 91 %* *Limits: 80-120 %* *Dilution: 1x*
Toluene-d8 (Surr) *108 %* *80-120 %* *"*
4-Bromofluorobenzene (Surr) *109 %* *80-120 %* *"*

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100981 - EPA 3510C (Neutral pH)								**Water**				
Blank (6100981-BLK1)					Prepared: 10/26/16 06:47		Analyzed: 10/26/16 18:33					**C-07**
EPA 8082A												
Aroclor 1016	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Aroclor 1262	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Aroclor 1268	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 80 %*	*Limits: 58-120 %*			*Dilution: 1x*					
LCS (6100981-BS1)					Prepared: 10/26/16 06:47		Analyzed: 10/26/16 18:51					**C-07**
EPA 8082A												
Aroclor 1016	0.760	0.0100	0.0200	ug/L	1	1.25	---	61	46-129%	---	---	
Aroclor 1260	0.928	0.0100	0.0200	"	"	"	---	74	45-134%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 81 %*	*Limits: 58-120 %*			*Dilution: 1x*					
LCS Dup (6100981-BSD1)					Prepared: 10/26/16 06:47		Analyzed: 10/26/16 19:09					**C-07, Q-19**
EPA 8082A												
Aroclor 1016	0.699	0.0100	0.0200	ug/L	1	1.25	---	56	46-129%	8	30%	
Aroclor 1260	0.812	0.0100	0.0200	"	"	"	---	65	45-134%	13	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 80 %*	*Limits: 58-120 %*			*Dilution: 1x*					

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100776 - EPA 3510C (Neutral pH)								**Water**				
Blank (6100776-BLK1)					Prepared: 10/19/16 17:34 Analyzed: 10/26/16 13:09							
EPA 8081B												
Aldrin	ND	0.00455	0.00909	ug/L	1	---	---	---	---	---	---	
alpha-BHC	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
beta-BHC	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
delta-BHC	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
gamma-BHC (Lindane)	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
cis-Chlordane	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
trans-Chlordane	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
4,4'-DDD	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
4,4'-DDE	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
4,4'-DDT	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Dieldrin	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Endosulfan I	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Endosulfan II	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Endosulfan sulfate	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Endrin	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Endrin Aldehyde	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Endrin ketone	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Heptachlor	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Heptachlor epoxide	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Methoxychlor	ND	0.0136	0.0273	"	"	---	---	---	---	---	---	
Chlordane (Technical)	ND	0.171	0.341	"	"	---	---	---	---	---	---	
Toxaphene (Total)	ND	0.171	0.341	"	"	---	---	---	---	---	---	
cis-Nonachlor	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
trans-Nonachlor	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
2,4'-DDD	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
2,4'-DDE	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
2,4'-DDT	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.0136	0.0273	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	
Mirex	ND	0.00455	0.00909	"	"	---	---	---	---	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100776 - EPA 3510C (Neutral pH)									**Water**			
Blank (6100776-BLK1)					Prepared: 10/19/16 17:34 Analyzed: 10/26/16 13:09							
Oxychlordane	ND	0.00455	0.00909	ug/L	"	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 92 %*		*Limits: 44-124 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*86 %*		*47-129 %*			*"*				
LCS (6100776-BS1)					Prepared: 10/19/16 17:34 Analyzed: 10/26/16 13:26							
EPA 8081B												
Aldrin	0.423	0.00500	0.0100	ug/L	1	0.500	---	85	45-134%	---	---	
alpha-BHC	0.512	0.00500	0.0100	"	"	"	---	102	54-138%	---	---	
beta-BHC	0.490	0.00500	0.0100	"	"	"	---	98	56-136%	---	---	
delta-BHC	0.516	0.00500	0.0100	"	"	"	---	103	52-142%	---	---	
gamma-BHC (Lindane)	0.525	0.00500	0.0100	"	"	"	---	105	59-134%	---	---	
cis-Chlordane	0.493	0.00500	0.0100	"	"	"	---	99	60-129%	---	---	
trans-Chlordane	0.490	0.00500	0.0100	"	"	"	---	98	56-136%	---	---	
4,4'-DDD	0.530	0.00500	0.0100	"	"	"	---	106	56-143%	---	---	
4,4'-DDE	0.511	0.00500	0.0100	"	"	"	---	102	57-135%	---	---	
4,4'-DDT	0.529	0.00500	0.0100	"	"	"	---	106	51-143%	---	---	
Dieldrin	0.518	0.00500	0.0100	"	"	"	---	104	60-136%	---	---	
Endosulfan I	0.517	0.00500	0.0100	"	"	"	---	103	62-126%	---	---	
Endosulfan II	0.514	0.00500	0.0100	"	"	"	---	103	52-135%	---	---	
Endosulfan sulfate	0.506	0.00500	0.0100	"	"	"	---	101	62-133%	---	---	
Endrin	0.618	0.00500	0.0100	"	"	"	---	124	60-138%	---	---	
Endrin Aldehyde	0.465	0.00500	0.0100	"	"	"	---	93	51-132%	---	---	
Endrin ketone	0.512	0.00500	0.0100	"	"	"	---	102	58-134%	---	---	
Heptachlor	0.440	0.00500	0.0100	"	"	"	---	88	54-130%	---	---	
Heptachlor epoxide	0.499	0.00500	0.0100	"	"	"	---	100	61-133%	---	---	
Methoxychlor	0.592	0.0150	0.0300	"	"	"	---	118	54-144%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 54 %*		*Limits: 44-124 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*85 %*		*47-129 %*			*"*				
LCS (6100776-BS2)					Prepared: 10/19/16 17:34 Analyzed: 10/26/16 14:01							
EPA 8081B												
cis-Nonachlor	0.456	0.00500	0.0100	ug/L	1	0.500	---	91	25-120%	---	---	

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Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100776 - EPA 3510C (Neutral pH)								**Water**				
LCS (6100776-BS2)					Prepared: 10/19/16 17:34 Analyzed: 10/26/16 14:01							
trans-Nonachlor	0.456	0.00500	0.0100	ug/L	"	"	---	91	"	---	---	
2,4'-DDD	0.478	0.00500	0.0100	"	"	"	---	96	30-135%	---	---	
2,4'-DDE	0.424	0.00500	0.0100	"	"	"	---	85	50-140%	---	---	
2,4'-DDT	0.522	0.00500	0.0100	"	"	"	---	104	45-140%	---	---	
Hexachlorobenzene	0.428	0.0150	0.0300	"	"	"	---	86	28-136%	---	---	
Hexachlorobutadiene	0.251	0.00500	0.0100	"	"	"	---	50	25-120%	---	---	
Mirex	0.420	0.00500	0.0100	"	"	"	---	84	51-127%	---	---	
Oxychlordane	0.449	0.00500	0.0100	"	"	"	---	90	25-120%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 69 %*	*Limits: 44-124 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*90 %*	*47-129 %*			*"*					
LCS Dup (6100776-BSD1)					Prepared: 10/19/16 17:34 Analyzed: 10/26/16 13:44							**Q-19**
EPA 8081B												
Aldrin	0.436	0.00500	0.0100	ug/L	1	0.500	---	87	45-134%	3	30%	
alpha-BHC	0.510	0.00500	0.0100	"	"	"	---	102	54-138%	0.5	30%	
beta-BHC	0.506	0.00500	0.0100	"	"	"	---	101	56-136%	3	30%	
delta-BHC	0.517	0.00500	0.0100	"	"	"	---	103	52-142%	0.2	30%	
gamma-BHC (Lindane)	0.514	0.00500	0.0100	"	"	"	---	103	59-134%	2	30%	
cis-Chlordane	0.476	0.00500	0.0100	"	"	"	---	95	60-129%	4	30%	
trans-Chlordane	0.472	0.00500	0.0100	"	"	"	---	94	56-136%	4	30%	
4,4'-DDD	0.518	0.00500	0.0100	"	"	"	---	104	56-143%	2	30%	
4,4'-DDE	0.502	0.00500	0.0100	"	"	"	---	100	57-135%	2	30%	
4,4'-DDT	0.540	0.00500	0.0100	"	"	"	---	108	51-143%	2	30%	
Dieldrin	0.525	0.00500	0.0100	"	"	"	---	105	60-136%	1	30%	
Endosulfan I	0.493	0.00500	0.0100	"	"	"	---	99	62-126%	5	30%	
Endosulfan II	0.526	0.00500	0.0100	"	"	"	---	105	52-135%	2	30%	
Endosulfan sulfate	0.510	0.00500	0.0100	"	"	"	---	102	62-133%	0.6	30%	
Endrin	0.653	0.00500	0.0100	"	"	"	---	131	60-138%	5	30%	
Endrin Aldehyde	0.458	0.00500	0.0100	"	"	"	---	92	51-132%	2	30%	
Endrin ketone	0.511	0.00500	0.0100	"	"	"	---	102	58-134%	0.2	30%	
Heptachlor	0.444	0.00500	0.0100	"	"	"	---	89	54-130%	1	30%	
Heptachlor epoxide	0.496	0.00500	0.0100	"	"	"	---	99	61-133%	0.6	30%	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100776 - EPA 3510C (Neutral pH)							**Water**					
LCS Dup (6100776-BSD1)					Prepared: 10/19/16 17:34		Analyzed: 10/26/16 13:44					**Q-19**
Methoxychlor	0.585	0.0150	0.0300	"	"	"	---	117	54-144%	1	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 66 %*	*Limits: 44-124 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*87 %*	*47-129 %*			*"*					
LCS Dup (6100776-BSD2)					Prepared: 10/19/16 17:34		Analyzed: 10/26/16 14:18					**Q-19**
EPA 8081B												
cis-Nonachlor	0.453	0.00500	0.0100	ug/L	1	0.500	---	91	25-120%	0.7	30%	
trans-Nonachlor	0.436	0.00500	0.0100	"	"	"	---	87	"	4	30%	
2,4'-DDD	0.468	0.00500	0.0100	"	"	"	---	94	30-135%	2	30%	
2,4'-DDE	0.430	0.00500	0.0100	"	"	"	---	86	50-140%	2	30%	
2,4'-DDT	0.495	0.00500	0.0100	"	"	"	---	99	45-140%	5	30%	
Hexachlorobenzene	0.411	0.0150	0.0300	"	"	"	---	82	28-136%	4	30%	
Hexachlorobutadiene	0.198	0.00500	0.0100	"	"	"	---	40	25-120%	24	30%	
Mirex	0.406	0.00500	0.0100	"	"	"	---	81	51-127%	3	30%	
Oxychlordane	0.426	0.00500	0.0100	"	"	"	---	85	25-120%	5	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 47 %*	*Limits: 44-124 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*85 %*	*47-129 %*			*"*					

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100689 - EPA 3510C (Acid Extraction)							**Water**					
Blank (6100689-BLK2)					Prepared: 10/18/16 09:21 Analyzed: 10/18/16 15:47							
EPA 8270D												
Acenaphthene	**0.0101**	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	B-02, J
Acenaphthylene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Anthracene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0136	0.0273	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0136	0.0273	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0136	0.0273	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Chrysene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Fluoranthene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Fluorene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0182	0.0364	"	"	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0182	0.0364	"	"	---	---	---	---	---	---	
Naphthalene	ND	0.0182	0.0364	"	"	---	---	---	---	---	---	
Phenanthrene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Pyrene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Carbazole	ND	0.0136	0.0273	"	"	---	---	---	---	---	---	
Dibenzofuran	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.0909	0.182	"	"	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0455	0.0909	"	"	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0455	0.0909	"	"	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0455	0.0909	"	"	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.227	0.455	"	"	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.227	0.455	"	"	---	---	---	---	---	---	
2-Methylphenol	ND	0.0227	0.0455	"	"	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0227	0.0455	"	"	---	---	---	---	---	---	
2-Nitrophenol	ND	0.0909	0.182	"	"	---	---	---	---	---	---	
4-Nitrophenol	ND	0.0909	0.182	"	"	---	---	---	---	---	---	

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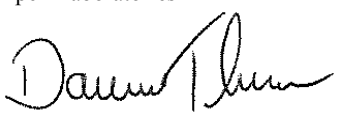

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100689 - EPA 3510C (Acid Extraction)									**Water**			
Blank (6100689-BLK2)					Prepared: 10/18/16 09:21 Analyzed: 10/18/16 15:47							
Pentachlorophenol (PCP)	ND	0.0909	0.182	ug/L	"	---	---	---	---	---	---	
Phenol	ND	0.182	0.364	"	"	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0455	0.0909	"	"	---	---	---	---	---	---	
2,3,5,6-Tetrachlorophenol	ND	0.0455	0.0909	"	"	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0455	0.0909	"	"	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0455	0.0909	"	"	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Diethylphthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Dimethylphthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 63 %*		*Limits: 44-120 %*				*Dilution: 1x*			
2-Fluorobiphenyl (Surr)			*75 %*		*44-120 %*				*"*			
Phenol-d6 (Surr)			*26 %*		*10-120 %*				*"*			
p-Terphenyl-d14 (Surr)			*92 %*		*50-133 %*				*"*			
2-Fluorophenol (Surr)			*44 %*		*19-120 %*				*"*			
2,4,6-Tribromophenol (Surr)			*74 %*		*43-140 %*				*"*			*Q-41*
LCS (6100689-BS2)					Prepared: 10/18/16 09:21 Analyzed: 10/18/16 16:22							
EPA 8270D												
Acenaphthene	2.91	0.0100	0.0200	ug/L	1	4.00	---	73	47-122%	---	---	B-02
Acenaphthylene	3.11	0.0100	0.0200	"	"	"	---	78	41-130%	---	---	
Anthracene	3.79	0.0100	0.0200	"	"	"	---	95	57-123%	---	---	
Benz(a)anthracene	3.77	0.0100	0.0200	"	"	"	---	94	58-125%	---	---	
Benzo(a)pyrene	3.87	0.0150	0.0300	"	"	"	---	97	54-128%	---	---	
Benzo(b)fluoranthene	4.28	0.0150	0.0300	"	"	"	---	107	53-131%	---	---	
Benzo(k)fluoranthene	4.27	0.0150	0.0300	"	"	"	---	107	57-129%	---	---	
Benzo(g,h,i)perylene	3.95	0.0100	0.0200	"	"	"	---	99	50-134%	---	---	
Chrysene	3.94	0.0100	0.0200	"	"	"	---	99	59-123%	---	---	
Dibenz(a,h)anthracene	3.96	0.0100	0.0200	"	"	"	---	99	51-134%	---	---	
Fluoranthene	4.00	0.0100	0.0200	"	"	"	---	100	57-128%	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100689 - EPA 3510C (Acid Extraction)							**Water**					
LCS (6100689-BS2)					Prepared: 10/18/16 09:21		Analyzed: 10/18/16 16:22					
Fluorene	3.49	0.0100	0.0200	ug/L	"	"	---	87	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.81	0.0100	0.0200	"	"	"	---	95	52-133%	---	---	
1-Methylnaphthalene	2.39	0.0200	0.0400	"	"	"	---	60	41-120%	---	---	
2-Methylnaphthalene	2.31	0.0200	0.0400	"	"	"	---	58	40-121%	---	---	
Naphthalene	2.27	0.0200	0.0400	"	"	"	---	57	"	---	---	
Phenanthrene	3.67	0.0100	0.0200	"	"	"	---	92	59-120%	---	---	
Pyrene	4.04	0.0100	0.0200	"	"	"	---	101	57-126%	---	---	
Carbazole	4.09	0.0150	0.0300	"	"	"	---	102	60-122%	---	---	
Dibenzofuran	3.29	0.0100	0.0200	"	"	"	---	82	53-120%	---	---	
4-Chloro-3-methylphenol	3.22	0.100	0.200	"	"	"	---	80	52-120%	---	---	
2-Chlorophenol	2.88	0.0500	0.100	"	"	"	---	72	38-120%	---	---	
2,4-Dichlorophenol	3.24	0.0500	0.100	"	"	"	---	81	47-121%	---	---	
2,4-Dimethylphenol	2.44	0.0500	0.100	"	"	"	---	61	31-124%	---	---	
2,4-Dinitrophenol	3.96	0.250	0.500	"	"	"	---	99	23-143%	---	---	
4,6-Dinitro-2-methylphenol	4.16	0.250	0.500	"	"	"	---	104	44-137%	---	---	
2-Methylphenol	2.42	0.0250	0.0500	"	"	"	---	61	30-120%	---	---	
3+4-Methylphenol(s)	2.28	0.0250	0.0500	"	"	"	---	57	29-120%	---	---	
2-Nitrophenol	3.42	0.100	0.200	"	"	"	---	86	47-123%	---	---	Q-41
4-Nitrophenol	1.46	0.100	0.200	"	"	"	---	37	5-120%	---	---	
Pentachlorophenol (PCP)	3.83	0.100	0.200	"	"	"	---	96	35-138%	---	---	
Phenol	1.14	0.200	0.400	"	"	"	---	29	5-120%	---	---	
2,3,4,6-Tetrachlorophenol	3.91	0.0500	0.100	"	"	"	---	98	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.85	0.0500	0.100	"	"	"	---	96	50-121%	---	---	
2,4,5-Trichlorophenol	3.62	0.0500	0.100	"	"	"	---	90	53-123%	---	---	
2,4,6-Trichlorophenol	3.57	0.0500	0.100	"	"	"	---	89	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	3.82	0.200	0.400	"	"	"	---	96	55-135%	---	---	
Butyl benzyl phthalate	3.77	0.200	0.400	"	"	"	---	94	53-134%	---	---	
Diethylphthalate	3.66	0.200	0.400	"	"	"	---	92	55-125%	---	---	
Dimethylphthalate	3.83	0.200	0.400	"	"	"	---	96	45-127%	---	---	
Di-n-butylphthalate	4.02	0.200	0.400	"	"	"	---	101	59-127%	---	---	
Di-n-octyl phthalate	3.61	0.200	0.400	"	"	"	---	90	51-140%	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100689 - EPA 3510C (Acid Extraction)									**Water**			
LCS (6100689-BS2)					Prepared: 10/18/16 09:21 Analyzed: 10/18/16 16:22							
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 62 %*	*Limits: 44-120 %*			*Dilution: 1x*					
2-Fluorobiphenyl (Surr)			*70 %*	*44-120 %*			*"*					
Phenol-d6 (Surr)			*28 %*	*10-120 %*			*"*					
p-Terphenyl-d14 (Surr)			*95 %*	*50-133 %*			*"*					
2-Fluorophenol (Surr)			*45 %*	*19-120 %*			*"*					
2,4,6-Tribromophenol (Surr)			*106 %*	*43-140 %*			*"*					*Q-41*
LCS Dup (6100689-BSD2)					Prepared: 10/18/16 09:21 Analyzed: 10/18/16 16:58							**Q-19**
EPA 8270D												
Acenaphthene	2.82	0.0100	0.0200	ug/L	1	4.00	---	70	47-122%	3	30%	B-02
Acenaphthylene	2.98	0.0100	0.0200	"	"	"	---	75	41-130%	4	30%	
Anthracene	3.44	0.0100	0.0200	"	"	"	---	86	57-123%	9	30%	
Benz(a)anthracene	3.56	0.0100	0.0200	"	"	"	---	89	58-125%	6	30%	
Benzo(a)pyrene	3.81	0.0150	0.0300	"	"	"	---	95	54-128%	1	30%	
Benzo(b)fluoranthene	4.02	0.0150	0.0300	"	"	"	---	100	53-131%	6	30%	
Benzo(k)fluoranthene	4.00	0.0150	0.0300	"	"	"	---	100	57-129%	6	30%	
Benzo(g,h,i)perylene	3.81	0.0100	0.0200	"	"	"	---	95	50-134%	4	30%	
Chrysene	3.70	0.0100	0.0200	"	"	"	---	93	59-123%	6	30%	
Dibenz(a,h)anthracene	3.88	0.0100	0.0200	"	"	"	---	97	51-134%	2	30%	
Fluoranthene	3.75	0.0100	0.0200	"	"	"	---	94	57-128%	6	30%	
Fluorene	3.33	0.0100	0.0200	"	"	"	---	83	52-124%	5	30%	
Indeno(1,2,3-cd)pyrene	3.72	0.0100	0.0200	"	"	"	---	93	52-133%	2	30%	
1-Methylnaphthalene	2.51	0.0200	0.0400	"	"	"	---	63	41-120%	5	30%	
2-Methylnaphthalene	2.48	0.0200	0.0400	"	"	"	---	62	40-121%	7	30%	
Naphthalene	2.43	0.0200	0.0400	"	"	"	---	61	"	7	30%	
Phenanthrene	3.33	0.0100	0.0200	"	"	"	---	83	59-120%	10	30%	
Pyrene	3.79	0.0100	0.0200	"	"	"	---	95	57-126%	6	30%	
Carbazole	3.90	0.0150	0.0300	"	"	"	---	98	60-122%	5	30%	
Dibenzofuran	3.16	0.0100	0.0200	"	"	"	---	79	53-120%	4	30%	
4-Chloro-3-methylphenol	2.96	0.100	0.200	"	"	"	---	74	52-120%	8	30%	
2-Chlorophenol	2.69	0.0500	0.100	"	"	"	---	67	38-120%	7	30%	
2,4-Dichlorophenol	3.09	0.0500	0.100	"	"	"	---	77	47-121%	5	30%	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100689 - EPA 3510C (Acid Extraction)							**Water**					
LCS Dup (6100689-BSD2)					Prepared: 10/18/16 09:21		Analyzed: 10/18/16 16:58					**Q-19**
2,4-Dimethylphenol	2.73	0.0500	0.100	ug/L	"	"	---	68	31-124%	11	30%	
2,4-Dinitrophenol	4.13	0.250	0.500	"	"	"	---	103	23-143%	4	30%	
4,6-Dinitro-2-methylphenol	4.32	0.250	0.500	"	"	"	---	108	44-137%	4	30%	
2-Methylphenol	2.28	0.0250	0.0500	"	"	"	---	57	30-120%	6	30%	
3+4-Methylphenol(s)	2.08	0.0250	0.0500	"	"	"	---	52	29-120%	9	30%	
2-Nitrophenol	3.31	0.100	0.200	"	"	"	---	83	47-123%	3	30%	Q-41
4-Nitrophenol	1.52	0.100	0.200	"	"	"	---	38	5-120%	4	30%	
Pentachlorophenol (PCP)	3.72	0.100	0.200	"	"	"	---	93	35-138%	3	30%	
Phenol	1.03	0.200	0.400	"	"	"	---	26	5-120%	10	30%	
2,3,4,6-Tetrachlorophenol	3.74	0.0500	0.100	"	"	"	---	94	50-128%	4	30%	
2,3,5,6-Tetrachlorophenol	3.69	0.0500	0.100	"	"	"	---	92	50-121%	4	30%	
2,4,5-Trichlorophenol	3.44	0.0500	0.100	"	"	"	---	86	53-123%	5	30%	
2,4,6-Trichlorophenol	3.36	0.0500	0.100	"	"	"	---	84	50-125%	6	30%	
Bis(2-ethylhexyl)phthalate	3.49	0.200	0.400	"	"	"	---	87	55-135%	9	30%	
Butyl benzyl phthalate	3.43	0.200	0.400	"	"	"	---	86	53-134%	10	30%	
Diethylphthalate	3.49	0.200	0.400	"	"	"	---	87	55-125%	5	30%	
Dimethylphthalate	3.54	0.200	0.400	"	"	"	---	89	45-127%	8	30%	
Di-n-butylphthalate	3.71	0.200	0.400	"	"	"	---	93	59-127%	8	30%	
Di-n-octyl phthalate	3.34	0.200	0.400	"	"	"	---	84	51-140%	8	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 56 %*		*Limits: 44-120 %*		*Dilution: 1x*					
2-Fluorobiphenyl (Surr)			*64 %*		*44-120 %*		*"*					
Phenol-d6 (Surr)			*25 %*		*10-120 %*		*"*					
p-Terphenyl-d14 (Surr)			*86 %*		*50-133 %*		*"*					
2-Fluorophenol (Surr)			*41 %*		*19-120 %*		*"*					
2,4,6-Tribromophenol (Surr)			*94 %*		*43-140 %*		*"*					*Q-41*

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100792 - EPA 3510C (Acid Extraction)							**Water**					
Blank (6100792-BLK1)					Prepared: 10/20/16 08:37 Analyzed: 10/20/16 16:05							
EPA 8270D												
Acenaphthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Anthracene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0136	0.0273	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0136	0.0273	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0136	0.0273	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Chrysene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Fluoranthene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Fluorene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0182	0.0364	"	"	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0182	0.0364	"	"	---	---	---	---	---	---	
Naphthalene	ND	0.0182	0.0364	"	"	---	---	---	---	---	---	
Phenanthrene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Pyrene	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Carbazole	ND	0.0136	0.0273	"	"	---	---	---	---	---	---	
Dibenzofuran	ND	0.00909	0.0182	"	"	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Diethylphthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Dimethylphthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.182	0.364	"	"	---	---	---	---	---	---	

Surr: Nitrobenzene-d5 (Surr)	*Recovery: 54 %*	*Limits: 44-120 %*	*Dilution: 1x*
2-Fluorobiphenyl (Surr)	*67 %*	*44-120 %*	*"*
Phenol-d6 (Surr)	*28 %*	*10-120 %*	*"*
p-Terphenyl-d14 (Surr)	*92 %*	*50-133 %*	*"*

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100792 - EPA 3510C (Acid Extraction)									**Water**			
Blank (6100792-BLK1)					Prepared: 10/20/16 08:37 Analyzed: 10/20/16 16:05							
Surr: 2-Fluorophenol (Surr)			*Recovery: 45 %*	*Limits: 19-120 %*				*Dilution: 1x*				
2,4,6-Tribromophenol (Surr)			*85 %*	*43-140 %*				*"*				*Q-41*
LCS (6100792-BS1)					Prepared: 10/20/16 08:37 Analyzed: 10/20/16 16:41							
EPA 8270D												
Acenaphthene	2.84	0.0100	0.0200	ug/L	1	4.00	---	71	47-122%	---	---	
Acenaphthylene	2.95	0.0100	0.0200	"	"	"	---	74	41-130%	---	---	
Anthracene	3.41	0.0100	0.0200	"	"	"	---	85	57-123%	---	---	
Benz(a)anthracene	3.41	0.0100	0.0200	"	"	"	---	85	58-125%	---	---	
Benzo(a)pyrene	3.50	0.0150	0.0300	"	"	"	---	88	54-128%	---	---	
Benzo(b)fluoranthene	3.69	0.0150	0.0300	"	"	"	---	92	53-131%	---	---	
Benzo(k)fluoranthene	3.75	0.0150	0.0300	"	"	"	---	94	57-129%	---	---	
Benzo(g,h,i)perylene	3.68	0.0100	0.0200	"	"	"	---	92	50-134%	---	---	
Chrysene	3.44	0.0100	0.0200	"	"	"	---	86	59-123%	---	---	
Dibenz(a,h)anthracene	3.61	0.0100	0.0200	"	"	"	---	90	51-134%	---	---	
Fluoranthene	3.62	0.0100	0.0200	"	"	"	---	91	57-128%	---	---	
Fluorene	3.20	0.0100	0.0200	"	"	"	---	80	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.51	0.0100	0.0200	"	"	"	---	88	52-133%	---	---	
1-Methylnaphthalene	2.60	0.0200	0.0400	"	"	"	---	65	41-120%	---	---	
2-Methylnaphthalene	2.64	0.0200	0.0400	"	"	"	---	66	40-121%	---	---	
Naphthalene	2.46	0.0200	0.0400	"	"	"	---	61	"	---	---	
Phenanthrene	3.18	0.0100	0.0200	"	"	"	---	80	59-120%	---	---	
Pyrene	3.69	0.0100	0.0200	"	"	"	---	92	57-126%	---	---	
Carbazole	3.93	0.0150	0.0300	"	"	"	---	98	60-122%	---	---	
Dibenzofuran	3.09	0.0100	0.0200	"	"	"	---	77	53-120%	---	---	
Bis(2-ethylhexyl)phthalate	3.45	0.200	0.400	"	"	"	---	86	55-135%	---	---	
Butyl benzyl phthalate	3.47	0.200	0.400	"	"	"	---	87	53-134%	---	---	
Diethylphthalate	3.48	0.200	0.400	"	"	"	---	87	55-125%	---	---	
Dimethylphthalate	3.59	0.200	0.400	"	"	"	---	90	45-127%	---	---	
Di-n-butylphthalate	3.68	0.200	0.400	"	"	"	---	92	59-127%	---	---	
Di-n-octyl phthalate	3.11	0.200	0.400	"	"	"	---	78	51-140%	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 57 %*	*Limits: 44-120 %*				*Dilution: 1x*				

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100792 - EPA 3510C (Acid Extraction)									**Water**			
LCS (6100792-BS1)					Prepared: 10/20/16 08:37 Analyzed: 10/20/16 16:41							
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 73 %*	*Limits: 44-120 %*		*Dilution: 1x*						
Phenol-d6 (Surr)			*27 %*	*10-120 %*		*"*						
p-Terphenyl-d14 (Surr)			*93 %*	*50-133 %*		*"*						
2-Fluorophenol (Surr)			*43 %*	*19-120 %*		*"*						
2,4,6-Tribromophenol (Surr)			*106 %*	*43-140 %*		*"*						*Q-41*
LCS Dup (6100792-BSD1)					Prepared: 10/20/16 08:37 Analyzed: 10/20/16 17:16							**Q-19**
EPA 8270D												
Acenaphthene	3.57	0.0100	0.0200	ug/L	1	4.00	---	89	47-122%	23	30%	
Acenaphthylene	3.68	0.0100	0.0200	"	"	"	---	92	41-130%	22	30%	
Anthracene	3.76	0.0100	0.0200	"	"	"	---	94	57-123%	10	30%	
Benz(a)anthracene	3.63	0.0100	0.0200	"	"	"	---	91	58-125%	6	30%	
Benzo(a)pyrene	3.63	0.0150	0.0300	"	"	"	---	91	54-128%	4	30%	
Benzo(b)fluoranthene	4.12	0.0150	0.0300	"	"	"	---	103	53-131%	11	30%	
Benzo(k)fluoranthene	4.03	0.0150	0.0300	"	"	"	---	101	57-129%	7	30%	
Benzo(g,h,i)perylene	3.78	0.0100	0.0200	"	"	"	---	95	50-134%	3	30%	
Chrysene	3.64	0.0100	0.0200	"	"	"	---	91	59-123%	6	30%	
Dibenz(a,h)anthracene	3.78	0.0100	0.0200	"	"	"	---	95	51-134%	5	30%	
Fluoranthene	3.88	0.0100	0.0200	"	"	"	---	97	57-128%	7	30%	
Fluorene	3.81	0.0100	0.0200	"	"	"	---	95	52-124%	17	30%	
Indeno(1,2,3-cd)pyrene	3.66	0.0100	0.0200	"	"	"	---	91	52-133%	4	30%	
1-Methylnaphthalene	3.45	0.0200	0.0400	"	"	"	---	86	41-120%	28	30%	
2-Methylnaphthalene	3.54	0.0200	0.0400	"	"	"	---	88	40-121%	29	30%	
Naphthalene	3.35	0.0200	0.0400	"	"	"	---	84	"	31	30%	Q-24
Phenanthrene	3.55	0.0100	0.0200	"	"	"	---	89	59-120%	11	30%	
Pyrene	3.91	0.0100	0.0200	"	"	"	---	98	57-126%	6	30%	
Carbazole	4.16	0.0150	0.0300	"	"	"	---	104	60-122%	6	30%	
Dibenzofuran	3.78	0.0100	0.0200	"	"	"	---	94	53-120%	20	30%	
Bis(2-ethylhexyl)phthalate	3.54	0.200	0.400	"	"	"	---	89	55-135%	3	30%	
Butyl benzyl phthalate	3.54	0.200	0.400	"	"	"	---	89	53-134%	2	30%	
Diethylphthalate	3.66	0.200	0.400	"	"	"	---	91	55-125%	5	30%	
Dimethylphthalate	3.85	0.200	0.400	"	"	"	---	96	45-127%	7	30%	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100792 - EPA 3510C (Acid Extraction)							**Water**					
LCS Dup (6100792-BSD1)					Prepared: 10/20/16 08:37		Analyzed: 10/20/16 17:16					**Q-19**
Di-n-butylphthalate	3.73	0.200	0.400	ug/L	"	"	---	93	59-127%	1	30%	
Di-n-octyl phthalate	3.27	0.200	0.400	"	"	"	---	82	51-140%	5	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 73 %*		*Limits: 44-120 %*		*Dilution: 1x*					
2-Fluorobiphenyl (Surr)			*91 %*		*44-120 %*		*"*					
Phenol-d6 (Surr)			*30 %*		*10-120 %*		*"*					
p-Terphenyl-d14 (Surr)			*96 %*		*50-133 %*		*"*					
2-Fluorophenol (Surr)			*49 %*		*19-120 %*		*"*					
2,4,6-Tribromophenol (Surr)			*111 %*		*43-140 %*		*"*					*Q-41*

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Hexavalent Chromium by EPA 7196A/SM3500-Cr B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100571 - Method Prep: Aq (Hex Cr)									**Water**			
Blank (6100571-BLK1)					Prepared: 10/14/16 06:56		Analyzed: 10/14/16 07:40					
EPA 7196A/SM3500-Cr B (mod)												
Hexavalent Chromium	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (6100571-BS1)					Prepared: 10/14/16 06:56		Analyzed: 10/14/16 07:40					
EPA 7196A/SM3500-Cr B (mod)												
Hexavalent Chromium	0.100	0.00500	0.00500	mg/L	1	0.100	---	100	85-115%	---	---	
Duplicate (6100571-DUP1)					Prepared: 10/14/16 06:56		Analyzed: 10/14/16 07:40					
QC Source Sample: MW-2-102016 (A6J0465-01)												
EPA 7196A/SM3500-Cr B (mod)												
Hexavalent Chromium	ND	0.00500	0.00500	mg/L	1	---	ND	---	---	---	20%	
Matrix Spike (6100571-MS1)					Prepared: 10/14/16 06:56		Analyzed: 10/14/16 07:40					
QC Source Sample: MW-2-102016 (A6J0465-01)												
EPA 7196A/SM3500-Cr B (mod)												
Hexavalent Chromium	0.0969	0.00510	0.00510	mg/L	1	0.100	ND	97	85-115%	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100956 - EPA 3015A							**Water**					
Blank (6100956-BLK1)					Prepared: 10/25/16 13:04 Analyzed: 10/26/16 16:06							
EPA 200.8												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Antimony	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Barium	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Cadmium	ND	0.0400	0.200	"	"	---	---	---	---	---	---	
Chromium	ND	0.400	1.00	"	"	---	---	---	---	---	---	
Copper	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Lead	ND	0.100	0.200	"	"	---	---	---	---	---	---	
Magnesium	ND	25.0	50.0	"	"	---	---	---	---	---	---	
Manganese	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	"	"	---	---	---	---	---	---	
Nickel	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Silver	ND	0.100	0.200	"	"	---	---	---	---	---	---	
Zinc	ND	2.00	4.00	"	"	---	---	---	---	---	---	
LCS (6100956-BS1)					Prepared: 10/25/16 13:04 Analyzed: 10/26/16 16:09							
EPA 200.8												
Aluminum	5590	25.0	50.0	ug/L	1	5560	---	101	85-115%	---	---	
Antimony	29.1	0.500	1.00	"	"	27.8	---	105	"	---	---	
Arsenic	57.6	0.500	1.00	"	"	55.6	---	104	"	---	---	
Barium	56.9	0.500	1.00	"	"	"	---	102	"	---	---	
Cadmium	57.0	0.0400	0.200	"	"	"	---	103	"	---	---	
Chromium	57.5	0.400	1.00	"	"	"	---	104	"	---	---	
Copper	55.4	0.500	1.00	"	"	"	---	100	"	---	---	
Lead	57.9	0.100	0.200	"	"	"	---	104	"	---	---	
Magnesium	5540	25.0	50.0	"	"	5560	---	100	"	---	---	
Manganese	57.1	0.500	1.00	"	"	55.6	---	103	"	---	---	
Mercury	1.10	0.0400	0.0800	"	"	1.11	---	99	"	---	---	
Nickel	56.6	0.500	1.00	"	"	55.6	---	102	"	---	---	
Silver	29.8	0.100	0.200	"	"	27.8	---	107	"	---	---	

Apex Laboratories

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Darwin Thomas, Business Development Director

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100956 - EPA 3015A									**Water**			
LCS (6100956-BS1)					Prepared: 10/25/16 13:04 Analyzed: 10/26/16 16:09							
Zinc	53.9	2.00	4.00	ug/L	"	55.6	---	97	"	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100704 - Method Prep: Aq									**Water**			
Blank (6100704-BLK1)					Prepared: 10/18/16 13:36		Analyzed: 10/19/16 05:43					
SM 5310 B												
Total Organic Carbon	ND	1.00	1.00	mg/L	1	---	---	---	---	---	---	
LCS (6100704-BS1)					Prepared: 10/18/16 13:36		Analyzed: 10/19/16 05:43					
SM 5310 B												
Total Organic Carbon	9.66	1.00	1.00	mg/L	1	10.0	---	97	85-115%	---	---	
LCS (6100704-BS2)					Prepared: 10/18/16 13:36		Analyzed: 10/19/16 05:43					
SM 5310 B												
Total Organic Carbon	ND	1.00	1.00	mg/L	1	0.00	---		85-115%	---	---	TOC_I
Duplicate (6100704-DUP1)					Prepared: 10/18/16 13:36		Analyzed: 10/19/16 05:43					
QC Source Sample: MW-2-102016 (A6J0465-01)												
SM 5310 B												
Total Organic Carbon	**2.03**	1.00	1.00	mg/L	1	---	1.58	---	---	25	20%	Q-05
Matrix Spike (6100704-MS1)					Prepared: 10/18/16 13:36		Analyzed: 10/19/16 05:43					
QC Source Sample: MW-2-102016 (A6J0465-01)												
SM 5310 B												
Total Organic Carbon	11.3	1.01	1.01	mg/L	1	10.0	1.58	97	75-125%	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100684							
A6J0465-05	Water	NWTPH-Dx	10/13/16 15:00	10/18/16 09:12	1050mL/2mL	1000mL/2mL	0.95
A6J0465-06	Water	NWTPH-Dx	10/13/16 16:00	10/18/16 09:12	1050mL/2mL	1000mL/2mL	0.95
Batch: 6100791							
A6J0465-01	Water	NWTPH-Dx	10/13/16 10:15	10/20/16 08:24	1050mL/2mL	1000mL/2mL	0.95
A6J0465-02	Water	NWTPH-Dx	10/13/16 12:25	10/20/16 08:24	1050mL/2mL	1000mL/2mL	0.95
A6J0465-04	Water	NWTPH-Dx	10/13/16 15:00	10/20/16 08:24	1050mL/2mL	1000mL/2mL	0.95

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100588							
A6J0465-01	Water	NWTPH-Gx (MS)	10/13/16 10:15	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00
A6J0465-02	Water	NWTPH-Gx (MS)	10/13/16 12:25	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00
A6J0465-04	Water	NWTPH-Gx (MS)	10/13/16 15:00	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00
A6J0465-05	Water	NWTPH-Gx (MS)	10/13/16 15:00	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00
A6J0465-06	Water	NWTPH-Gx (MS)	10/13/16 16:00	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 8260B

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100588							
A6J0465-01	Water	EPA 8260B	10/13/16 10:15	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00
A6J0465-02	Water	EPA 8260B	10/13/16 12:25	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00
A6J0465-03	Water	EPA 8260B	10/13/16 00:00	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00
A6J0465-04	Water	EPA 8260B	10/13/16 15:00	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00
A6J0465-05	Water	EPA 8260B	10/13/16 15:00	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00
A6J0465-06	Water	EPA 8260B	10/13/16 16:00	10/14/16 12:15	5mL/5mL	5mL/5mL	1.00

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3510C (Neutral pH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100981							

Apex Laboratories

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3510C (Neutral pH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A6J0465-01	Water	EPA 8082A	10/13/16 10:15	10/26/16 14:59	1050mL/5mL	1000mL/5mL	0.95
A6J0465-02	Water	EPA 8082A	10/13/16 12:25	10/26/16 14:59	1050mL/5mL	1000mL/5mL	0.95
A6J0465-04	Water	EPA 8082A	10/13/16 15:00	10/26/16 14:59	1050mL/5mL	1000mL/5mL	0.95
A6J0465-05	Water	EPA 8082A	10/13/16 15:00	10/26/16 14:59	1050mL/5mL	1000mL/5mL	0.95
A6J0465-06	Water	EPA 8082A	10/13/16 16:00	10/26/16 14:59	1050mL/5mL	1000mL/5mL	0.95

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100776							
A6J0465-01	Water	EPA 8081B	10/13/16 10:15	10/19/16 17:34	1050mL/5mL	1000mL/5mL	0.95
A6J0465-02	Water	EPA 8081B	10/13/16 12:25	10/19/16 17:34	1050mL/5mL	1000mL/5mL	0.95
A6J0465-04	Water	EPA 8081B	10/13/16 15:00	10/19/16 17:34	1050mL/5mL	1000mL/5mL	0.95
A6J0465-05	Water	EPA 8081B	10/13/16 15:00	10/19/16 17:34	1050mL/5mL	1000mL/5mL	0.95
A6J0465-06	Water	EPA 8081B	10/13/16 16:00	10/19/16 17:34	1050mL/5mL	1000mL/5mL	0.95

Semivolatile Organic Compounds by EPA 8270D

Prep: EPA 3510C (Acid Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100689							
A6J0465-01RE2	Water	EPA 8270D	10/13/16 10:15	10/18/16 11:33	1050mL/1mL	1000mL/1mL	0.95
A6J0465-05RE1	Water	EPA 8270D	10/13/16 15:00	10/18/16 11:33	1050mL/1mL	1000mL/1mL	0.95
A6J0465-06RE1	Water	EPA 8270D	10/13/16 16:00	10/18/16 11:33	1050mL/1mL	1000mL/1mL	0.95
Batch: 6100792							
A6J0465-02RE2	Water	EPA 8270D	10/13/16 12:25	10/20/16 11:15	1040mL/1mL	1000mL/1mL	0.96
A6J0465-04RE2	Water	EPA 8270D	10/13/16 15:00	10/20/16 11:15	1050mL/1mL	1000mL/1mL	0.95

Total Hexavalent Chromium by EPA 7196A/SM3500-Cr B

Prep: Method Prep: Aq (Hex Cr)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100571							
A6J0465-01	Water	EPA 7196A/SM3500-Cr B (mod)	10/13/16 10:15	10/14/16 06:56	25mL/25mL	25mL/25mL	1.00

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

SAMPLE PREPARATION INFORMATION

Total Hexavalent Chromium by EPA 7196A/SM3500-Cr B

Prep: Method Prep: Aq (Hex Cr)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A6J0465-02	Water	EPA 7196A/SM3500-Cr B (mod)	10/13/16 12:25	10/14/16 06:56	25mL/25mL	25mL/25mL	1.00
A6J0465-04	Water	EPA 7196A/SM3500-Cr B (mod)	10/13/16 15:00	10/14/16 06:56	25mL/25mL	25mL/25mL	1.00
A6J0465-05	Water	EPA 7196A/SM3500-Cr B (mod)	10/13/16 15:00	10/14/16 06:56	25mL/25mL	25mL/25mL	1.00
A6J0465-06	Water	EPA 7196A/SM3500-Cr B (mod)	10/13/16 16:00	10/14/16 06:56	25mL/25mL	25mL/25mL	1.00

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100956							
A6J0465-01	Water	EPA 200.8	10/13/16 10:15	10/25/16 13:04	45mL/50mL	45mL/50mL	1.00
A6J0465-02	Water	EPA 200.8	10/13/16 12:25	10/25/16 13:04	45mL/50mL	45mL/50mL	1.00
A6J0465-04	Water	EPA 200.8	10/13/16 15:00	10/25/16 13:04	45mL/50mL	45mL/50mL	1.00
A6J0465-05	Water	EPA 200.8	10/13/16 15:00	10/25/16 13:04	45mL/50mL	45mL/50mL	1.00
A6J0465-06	Water	EPA 200.8	10/13/16 16:00	10/25/16 13:04	45mL/50mL	45mL/50mL	1.00

Conventional Chemistry Parameters

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100704							
A6J0465-01	Water	SM 5310 B	10/13/16 10:15	10/18/16 13:36	40mL/40mL	40mL/40mL	1.00
A6J0465-02	Water	SM 5310 B	10/13/16 12:25	10/18/16 13:36	40mL/40mL	40mL/40mL	1.00
A6J0465-04	Water	SM 5310 B	10/13/16 15:00	10/18/16 13:36	40mL/40mL	40mL/40mL	1.00
A6J0465-05	Water	SM 5310 B	10/13/16 15:00	10/18/16 13:36	40mL/40mL	40mL/40mL	1.00
A6J0465-06	Water	SM 5310 B	10/13/16 16:00	10/18/16 13:36	40mL/40mL	40mL/40mL	1.00

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

Notes and Definitions

Qualifiers:

A-03	Acrolein and 2-Chloroethyl vinyl ether (2-CEVE) can not be reported from HCl preserved vial provided.
B-02	Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-24	RPD for spike and spike duplicate is above established control limit. Recoveries for both spike and spike duplicate are within control limits.
Q-31	Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
S-06	Surrogate recovery is outside of established control limits.
TOC_I	Inorganic Carbon Spike Check. Results valid if Non Detect (No Inorganic Carbon detected.)

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

***

Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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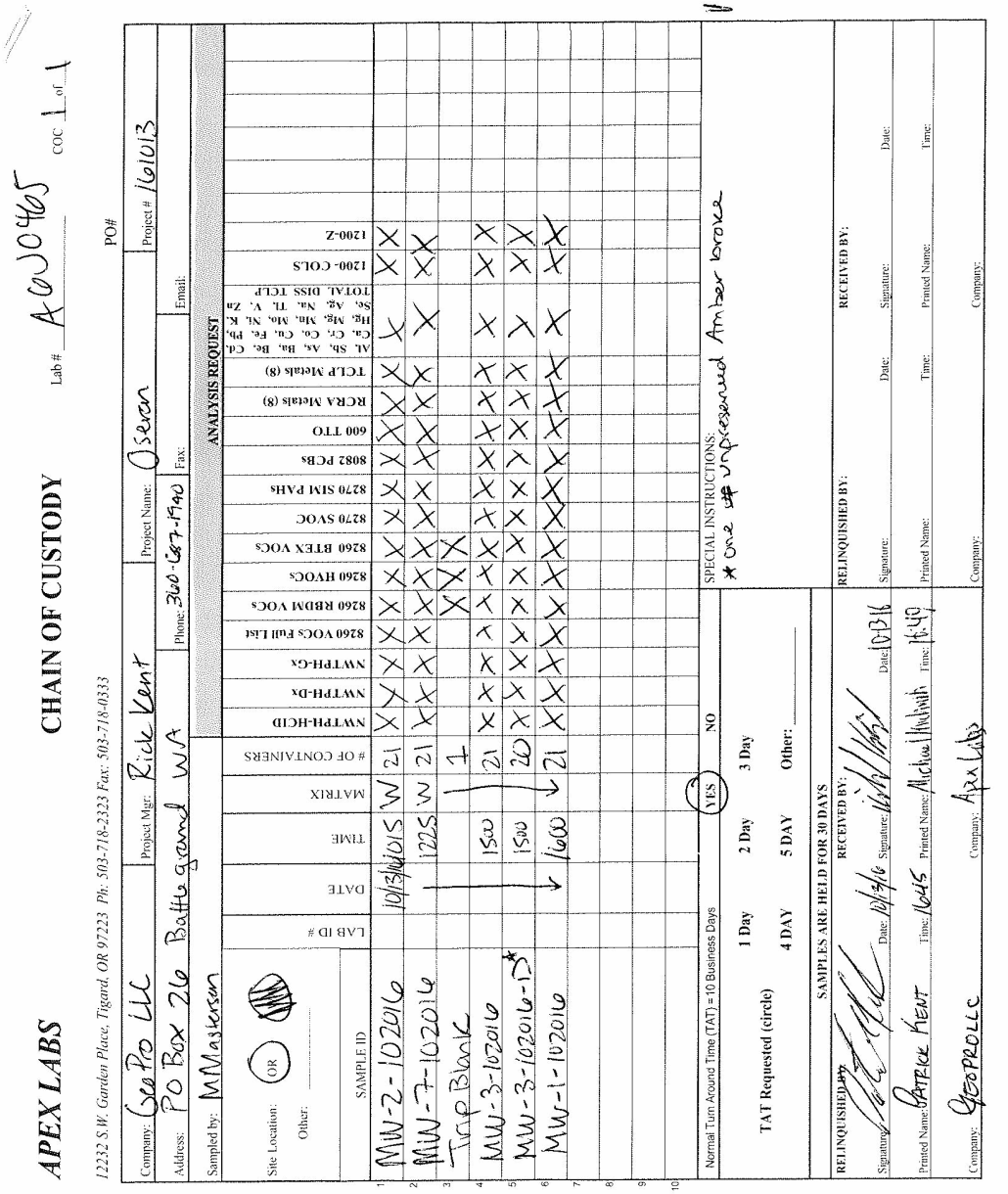
GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 10:54



APEX LABS — **CHAIN OF CUSTODY** — Lab # A6J0405 — COC 1 of 1 — PO#

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: GeoPro LLC | Project Mgr: Rick Kent | Project Name: Osrean | Project # 161013

Address: PO Box 26 Battle Ground WA | Phone: 360-687-1940 | Fax: | Email:

Sampled by: MMasterson

Site Location: OR Other:

ANALYSIS REQUEST

#	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200- COLS	1200-Z
1	MW-2-102016		10/3/2016	1515	W	21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	MW-7-102016			1225	W	21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	Trip Blank					1				X	X	X	X									
4	MW-3-102016			1500		21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	MW-3-102016-D*			1500		20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	MW-1-102016		↓	1600	↓	21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7																						
8																						
9																						
10																						

Normal Turn Around Time (TAT) = 10 Business Days — YES (circled) / NO

TAT Requested (circle): 1 Day | 2 Day | 3 Day | 4 DAY | 5 DAY | Other: _____

SPECIAL INSTRUCTIONS:
* one set unpreserved Amber bottles

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Printed Name: PATRICK KENT	Printed Name: Michael Hinrichs	Printed Name:	Printed Name:
Company: GEOPRO LLC	Company: Apex Labs	Company:	Company:
Date: 10/3/16	Date: 10/3/16	Date:	Date:
Time: 1645	Time: 1645	Time:	Time:

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ECOLOGICAL LEVEL I SCOPING REPORT

States Battery Site (ESCI #1007)
and adjacent properties
2245 and 2258 NW Suffolk Street
2740 and 2538 NW 22nd Place
Portland, Oregon

Prepared For

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ACRONYMS

ERA	Ecological Risk Assessment
ERB	Ecological Risk-Based screening concentration
OAR	Oregon Administrative Record
ODEQ	Oregon Department of Environmental Quality
ONHP	Oregon Natural Heritage Program
RTE	Rare, Threatened, or Endangered
TAS	Technical Assessment Services
USEPA	United States Environmental Protection Agency

INTRODUCTION

The potential for ecological impacts associated with site operations at the States Battery Site and adjacent properties (Site) is assessed as part of an environmental investigation by GeoPro LLC. The States Battery Site is located at 2258 Suffolk Street. DEQ determined that investigation of this location was warranted based on the potential for soil and groundwater contamination from battery operations which occurred from 1945 until 1957. In addition, the States Battery Site was identified as having the potential for releases into the Willamette River by EPA as part of the Portland Harbor Superfund Site investigation. The adjacent properties included in this report consist of the following:

- 2245 NW Suffolk Street contains a 27,750 square foot two-story, tilt-up concrete, warehouse and a 3,122 square foot office.
- 2258 NW Suffolk Street contains a 14,552 square foot two-story, tilt-up concrete warehouse. 2245 and 2258 Suffolk Street warehouses are connected via a single story, 1,700 square foot, service corridor. Asphalt paved NW Suffolk Street separates the two warehouses. The current property use is for storage of castings for a steel foundry and a separate room for machining small parts.
- 2740 NW 22nd Place contains a 10,980 square foot warehouse surrounded by asphalt paving incorporating a second story office and is used for storage of wood products.
- 2538 NW 22nd Place is a 2,422 square foot single story building surrounded by asphalt paving currently used as an office. 2740 and 2538 NW 22nd Place buildings are connected.

This Scoping Level Ecological Risk Assessment (ERA) was conducted by Technical Assessment Services, Inc (TAS) in accordance with Oregon Department of Environmental Quality (ODEQ) guidelines (ODEQ, 2001; 2007). This assessment included a review of site conditions, likely contaminants of interest, potential pathways of exposure, and a determination of the presence of rare, threatened, and endangered species near the site. A site visit was conducted on 19 October 2016 by TAS to determine the ecological features of the subject property and current ecological site conditions. An ODEQ ecological checklist was completed during the site visit (See Appendix A). Site photos are provided in Appendix B.

The goal of this Scoping Assessment is to identify potential ecologically significant receptors, complete exposure pathways, and ecologically significant impacts at the site and determine the need for additional ecological investigation.

1.0 Biological, Physical and Chemical Stressors

Ecological receptors may be affected through exposure to toxic chemicals and as a result of physical changes to their environment (i.e., destruction of habitat). While biological stressors (e.g., viruses and bacteria) may also affect ecological receptors, they are more frequently associated with food or human waste and in areas where wildlife congregate in very large numbers. Since relatively few workers and visitors are present at the site, waste food and human wastes do not pose a significant threat to ecological receptors. Ecological receptors are also unlikely to congregate in the vicinity of the site in numbers that could result in significant biological infection or passage of wildlife

diseases because of the lack of suitable habitat. Thus, biological stressors are unlikely to be a significant factor at this site and are not considered further.

1.1 Physical Stressors

The Site consists of four properties owned by two separate landowners at the following addresses: 2245 and 2258 NW Suffolk Street and 2740 and 2538 NW 22nd Place in Portland, Oregon.

The Site is almost completely covered with buildings or asphalt and concrete paving so any contamination that may be present in the subsurface would not be exposed to erosion and potential surface discharge. An area adjacent to the BNSF railway and extending NW of the service corridor between 2245 and 2258 Suffolk and SE of 2740 and 2538 NW 22nd Place is the property's rail spur. This area is downgradient from the main portion of the Site and is covered with gravel, ballast, rail tracks, and minor vegetation. Extensive deterioration of asphalt paving has occurred up gradient and offsite of NW 22nd Place and southwest of the 2245 NW Suffolk Street warehouse.

Located within the Portland Basin the Site has a relatively flat topography with a gentle NE slope towards the Willamette River. There is little vegetation on site. Site vegetation is limited to small areas where weeds, small trees and some vegetation is present in small uncovered areas or pushing through cracks in concrete and asphalt. There are no surface water bodies on or adjacent to the site. The nearest surface water is the Willamette River, located approximately 1200 feet NE of the Site.

All storm water and sanitary discharges from the Site flow into the NW Sherlock combined gravity main line and into the City of Portland's Westside combined sanitary/storm water sewer overflow (CSO) system tunnel. No untreated storm water flows directly from the Site into the Willamette River.

Development of the site has resulted in the removal or destruction of all natural terrestrial habitats. The on-going daily human presence presents physical stressors (i.e., noise, car traffic, human presence, etc.) to any plants, invertebrates, or wildlife that may visit the site. There is no suitable habitat on site to support avian, terrestrial or aquatic ecological receptors.

1.2 Chemical Stressors

The primary Chemicals of concern on the Site based on site operations are metals. Hazardous substances previously detected in the vicinity of the Site include lead, other heavy metals such as arsenic and zinc and possibly PCBs.

1.3 Impacted Media

Potentially impacted media include subsurface soil, groundwater and sediment in the catch basins on site.

2.0 Ecological Setting

The regional and site-specific ecology are described in this section to provide an understanding of the climate, plants, invertebrates, fish, and wildlife that may inhabit the region surrounding the Site, and those potentially found on-site. Biological information was gathered from the October 2016 site visit.

Other than threatened and endangered species that must be considered on an individual level, a particular species must be potentially present on or utilize the site in numbers adequate to allow an exposure level that may result in effects to the species' population. Such significant exposure to site-related contaminants of ecological interest will only occur for those species known or likely to inhabit or frequent the site in numbers adequate to allow and exposure level that may result in effects to the population..

2.1 Regional Ecology

The climate of the region is typical of the Pacific Northwest interior. It is characterized by a long, cool rainy season from October to May and a short, warm dry season from June to September. The transition between these two seasons is gradual. The climate is influenced primarily by prevailing westerly winds that carry moisture from the Pacific Ocean and provide the coast with abundant rainfall. A persistent offshore high-pressure system blocks most maritime frontal systems from entering the area during the summer months. During the winter, this high moves southward to the coast of California and consequently has minimal effect on the movement of Pacific frontal systems.

The Cascade Mountain Range to the east blocks most continental weather, including winter storms that are common west of the Continental Divide. However, occasional influxes of cold air from the north penetrate the Willamette Valley through the Columbia Gorge. Temperatures in the area seldom exceed 90^{o}F or fall below 0^{o}F. Rainfall averages approximately 40 inches annually and occurs primarily between October and March.

Historically, the region was dominated by evergreen forests with a limited understory. Riparian areas along streams and rivers and naturally disturbed areas (e.g., landslides) were mixed deciduous/evergreen forests with dense understory and herbaceous layers. These habitats supported a stable and complex assemblage of plant, invertebrate, reptile, amphibian, bird, and mammal species.

Currently, the urbanized region contains remnant or second growth patches of evergreen forest. While these ecosystems may support an array of plants, invertebrates, birds and mammals (and some of these may be abundant), the species composition is generally not as diverse as with native or natural successional habitats.

Representative regional fauna may include:

- Numerous invertebrate species.
- A few frog, salamander, and snake species.
- Song and perching birds, woodpeckers, grouse, waterfowl, piscivorous birds such as herons or kingfishers, scavengers such as crows and vultures, and raptors such as owls, hawks, and eagles.

- Small mammals such as voles and deer mice; medium bodied mammals such as raccoons, skunks, and opossum; and large mammals such as deer, cougars, or black bear.

However, other than those species particularly suited or accustomed to rural residential, suburban, urban, or agricultural ecosystems, the populations of wildlife in the region are limited and isolated by the fragmentation of suitable habitat. This fragmentation is alleviated to some extent nearing the Cascade foothills to the east and Coast Mountains to the west, where the rural residential and agricultural ecosystems give way to primarily mature second or third growth coniferous forests.

The Site is zoned Heavy Industrial by the City of Portland. There is no undisturbed habitat on or in the vicinity of the Site.

2.2 Site Ecology

The local ecology at the site differs from the regional ecology described in Section 1.2.1 in that the degree to which human activities have altered the natural environment have influenced the biological resources in an area. The Site is located within an industrial area adjacent to a railroad line and surrounded by heavy industry and traffic. The site is highly disturbed and provides no suitable habitat for ecological receptors.

2.3 Sensitive Environments

Sensitive environments include areas of particular environmental value where a hazardous substance could pose a greater threat than in other non-sensitive areas. Such sensitive areas may include critical habitat for federally threatened endangered or threatened species, parks, monuments, marine sanctuaries, recreation areas, wildlife refuges, wildlife management areas, wilderness areas, wetlands, wild and scenic rivers, and other significant open space. There are no sensitive environments on site. The nearest surface water body is the Willamette River, located 1200 feet northeast of the Site.

2.4 Rare, Threatened, and Endangered Species

A rare, threatened, and endangered species search was conducted through the Oregon Natural Heritage Program (ONHP) for a two-mile radius surrounding the Site. A summary of the results is provided in Table 1. No threatened or endangered species have been documented as inhabiting the site.

The ONHP identified the Coho salmon (*Oncorhynchus kisutch*) as a Federally listed threatened species and State listed endangered species. Steelhead (Oncorhynchus *mykiss*) and Chinook Salmon (*Oncorhynchus tshawytscha*) are Federally listed threatened species and State listed sensitive–critical species of concern.

The Green Sturgeon (*Acipenser medirostris*) is a Federally listed species of concern. The Oregon Slender Salamander (*Batrachoseps wrighti*) and the Pacific Lamprey (*Entosphenus tridentatus*) are both Federally listed Species of Concern and State listed sensitive-vulnerable species. Townsend's big-eared bat (*Corynorhinus townsendii*) is

identified as a Federal listed species of concern and State listed sensitive-critical species of concern. The Painted Turtle (*Chrysemys picta*) is a designated State sensitive-critical species, the American Peregrine Falcon (*Falco peregrinus anatum*) is a State designated sensitive-vulnerable species and the Tall Bugbane (*Cimicifuga elata var elata*) is a candidate for State listing.

3.0 Ecological Conceptual Exposure Model

An ecological conceptual site model depicts the sources of contamination, contaminant release and transport mechanisms, exposure media, and exposure routes to particular types of receptors.

The COIs have been identified as heavy metals (lead, arsenic, zinc) and PCBs. These constituents were introduced onto the Site as a result of site related operations. Recent soil sampling determined that the highest concentrations of Site contaminants of concern are found in surface fill materials. Concentrations decreased to below screening level values (SLVs) in samples taken below fill material.

There is little to no exposed soil. Any exposed soil consists of small patches of exposed ground where a tree, plant, shrub or weeds grow. While some receptors may contact soil through burrowing below ground surface, it is not likely that will occur as the site is predominantly paved. Employees and active traffic likely serve as deterrents to significant numbers of ecological receptors. Therefore there are no complete soil pathways onsite.

Beneficial uses of water are limited to industrial ground water wells and recharge to the Willamette River. There are no water supply wells located on the Site. No municipal or residential water supply wells, or other wells such as industrial supply wells, have been identified within ¼ mile of the Site (GeoPro 2015). No surface water is present onsite. Therefore there are no complete surface or groundwater pathways onsite.

Groundwater beneath the Site is not used for any purpose, nor are there any future plans for such use. Previous investigations have stated that there are no dry wells on the Site. Groundwater may have been potentially be contaminated through leaching of contaminants in soil, however currently the site is virtually completely covered with asphalt, concrete, and buildings. Potentially contaminated surface water flows into the NW Sherlock combined gravity main line and the City of Portland's Westside CSO (Combined Sewer Overflow). Therefore, there is little potential for direct off-site impacts from site related contaminants as exposure pathways for groundwater are incomplete.

The potential transport of site-related contaminants via groundwater to the Willamette River has yet to be determined. Therefore that pathway is potentially complete. The results of two recent groundwater analyses (GeoPro Jan/Feb 2016) demonstrated very low levels of the constituents of concern. Concentrations of lead and zinc did not exceed screening level values; Arsenic did not exceed background concentrations for the area. Of the other constituents detected, none exceeded the ecological PRGs for surface water developed for the Portland Harbor Superfund Site. Therefore the potential

communication between groundwater at the Site and the Willamette River is not a pathway of concern.

4.0 Uncertainty Analysis

The Ecological Scoping Assessment conducted for the Site is a qualitative screening process to determine whether significant ecological receptors are present on the site and could be exposed to site-related contaminants. As such, the assessment is dependent on professional judgment and thus, subject to some uncertainty.

Specifically, no surveys were made of plant, invertebrate, or wildlife species that might be present at the site during various seasons. Instead, information from the site visit was used to predict species that possibly could be present and potential pathways of exposure.

5.0 Recommendations

The contaminants of interest at Site include heavy metals (arsenic, lead, zinc) and PCBs. If available to wildlife at adequate doses, these chemicals may negatively impact plants, invertebrates, fish, or wildlife. This report has determined the following:

- There is no suitable ecological habitat on site as the site is covered with buildings or paved, therefore there are no pathways of exposure for terrestrial or avian receptors.

- There are no surface water bodies on site, and any storm water runoff flows into the City of Portland CSO. Therefore there is little to no potential for impacts to groundwater or surface water on or off site.

- An inventory of threatened and endangered (T&E) species determined that there were no T&E species on site.

- The potential for offsite transport of significant quantities of site related contaminates has been determined to be low. The results of recent groundwater analysis shows that concentrations of site related chemicals of concern are below background or levels of concern for ecological receptors.

Therefore, no further ecological evaluation is recommended for this Site.

6.0 Ecological Risk Assessment References

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Franklin JF and Dyrness CT, Natural Vegetation of Oregon and Washington. Oregon State University Press. 1973

GeoPro LLC, "Workplan Addendum" States Battery Site, ECSI #1007 and Adjacent Properties. Prepared for ODEQ. June 2015

GeoPro LLC, "Technical Memorandum. Data Gap Investigation and Storm water Assessment. States Battery Site, ECSI #1007 and Adjacent Properties. Prepared for ODEQ. January 2016.

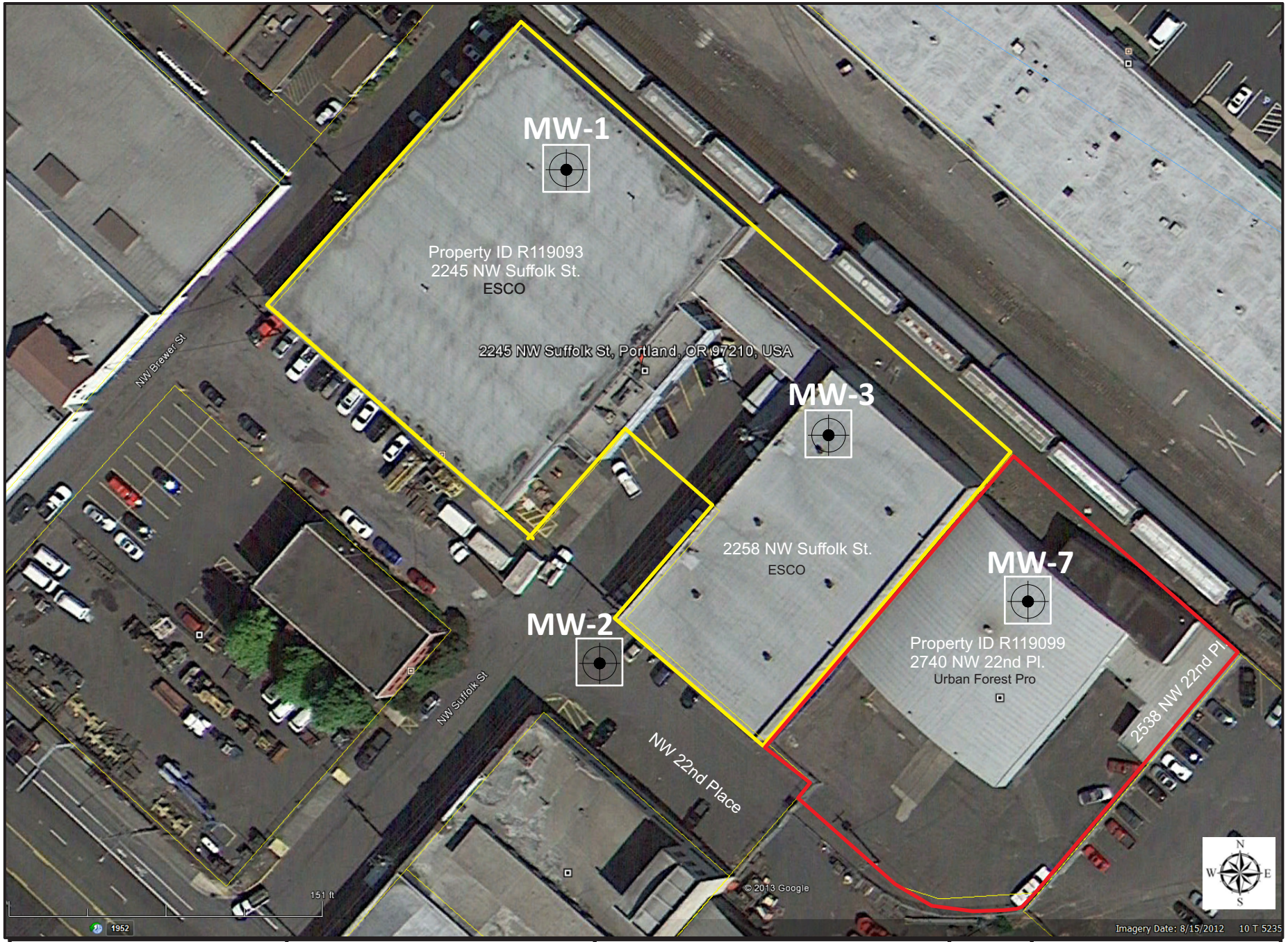
GeoPro LLC, Technical Memoranda, Data Gap Investigation and Stormwater Assessment. States Battery Site, ECSI #1007 and Adjacent Properties. February 2016.

Oregon Department of Environmental Quality (ODEQ). Guidance for Ecological Risk Assessment. Final. Waste Management & Cleanup Division. Cleanup Policy & Program Development Section. Portland. November. 1998

Oregon Natural Heritage Program, written communication

FIGURES

FIGURE 1 SITE MAP



GeoPro LLC PO Box 26 Battle Ground, WA 98604 September 2016	2245 and 2258 NW Suffolk St. and 2740 and 2538 NW 22nd Pl. Portland, Oregon (ESCI #1007)	**MONITOR WELLS LOCATION MAP** Data Gap Investigation	Monitor Well	**Yellow Plus Red Outline The Site**

TABLES

TABLE 1- Federal and State listed Species of Concern

TABLE 1- Federal and State listed Species of Concern*

Scientific Name	Common Name	Designation
Acipenser medirostris	Green Sturgeon	Federal Species of Concern
Batrachoseps wrighti	Oregon slender salamander	Federal-Species of Concern; State designated Sensitive-vulnerable species
Chrysemys picta	Painted turtle	State designated sensitive-critical species
Cimicifuga elata var.elata	Tall bugbane	Candidate for State Listing
Corynorhinus townsendii	Townsend's big-eared bat	Federal Species of Concern; State designated Sensitive-critical species
Entosphenus tridentatus	Pacific lamprey	Federal-Species of Concern; State designated Sensitive-vulnerable species
Falco peregrinus anatum	American peregrine falcon	State designated sensitive-vulnerable species
Oncorhynchus kisutch pop 1.	Coho salmon	Federal - Listed Threatened; State Listed Endangered
Oncorhynchus mykiss pop 27	Steelhead	Federal - Listed threatened; State designated Sensitive-critical species
Oncorhynchus tshawytscha pop 21	Chinook Salmon	Federal - Listed threatened; State designated Sensitive-critical species
Oncorhynchus tshawytscha pop 22	Chinook Salmon	Federal - Listed threatened; State designated Sensitive-critical species
Oncorhynchus tshawytscha pop 23	Chinook Salmon	Federal - Listed threatened; State designated Sensitive-critical species

*Information provided by Oregon Biodiversity Information Center, Portland State University November 2016

APPENDIX A

Ecological Scoping Checklist

Ecological Scoping Checklist

Site Name	States Battery Site and Adjacent Properties
Date of Site Visit	19 October 2016
Site Location	2245 and 2258 NW Suffolk Street/ 2740 and 2538 NW 22nd Place Portland, Oregon
Site Visit Conducted by	Regina Skarzinskas Technical Assessment Services

CONTAMINANTS OF INTEREST **Types, Classes, Or Specific Hazardous Substances‡ Known Or Suspected**	**Onsite**	**Adjacent to or in locality of the facility†**
Metals, PCBs, petroleum constituents	X	UNK

Part ❶

‡ As defined by OAR 340-122-115(34) † As defined by OAR 340-122-115(38)

*See offsite Ecological Scoping Checklist

OBSERVED IMPACTS ASSOCIATED WITH THE SITE	**Finding**
Onsite vegetation (**N**one, **L**imited, **E**xtensive)	L
Vegetation in the locality of the site (**N**one, **L**imited, **E**xtensive)	l
Onsite wildlife such as macroinvertebrates, reptiles, amphibians, birds, mammals, other (**N**one, **L**imited, **E**xtensive)	N (none observed)
Wildlife such as macroinvertebrates, reptiles, amphibians, birds, mammals, other in the locality of the site (**N**one, **L**imited, **E**xtensive)	N (none observed)
Other readily observable impacts (**N**one, **D**iscuss below)	N (none observed)

Discussion:
The site is covered with buildings or paving. A few weeds popping up through the cracks, small patches of soil where weeds and small plants are growing, but no formal landscaped areas. Traffic, train tracks and lack of suitable habitat make it unlikely to provide suitable for most ecological receptors.

Part ❷

ATTACHMENT 1
Ecological Scoping Checklist (cont'd)

SPECIFIC EVALUATION OF ON-SITE ECOLOGICAL RECEPTORS / HABITAT	Finding
Terrestrial – Wooded	
Percentage of site that is wooded	0
Dominant vegetation type (**E**vergreen, **D**eciduous, **M**ixed)	NA
Prominent tree size at breast height, i.e., four feet (<6", 6" to 12", >12")	NA
Evidence / observation of wildlife (**M**acroinvertebrates, **R**eptiles, **A**mphibians, **B**irds, **M**ammals, **O**ther)	NA
Terrestrial - Scrub/Shrub/Grasses	
Percentage of site that is scrub/shrub	<0.5%
Dominant vegetation type (**Sc**rub, **Sh**rub, **G**rasses, **O**ther)	S
Prominent height of vegetation (<2', 2' to 5', >5')	<2'
Density of vegetation (**D**ense, **P**atchy, **S**parse)	S (Very small patches of uncovered soil. Or growth popping through unmaintained areas.
Evidence / observation of wildlife (**M**acroinvertebrates, **R**eptiles, **A**mphibians, **B**irds, **M**ammals, **O**ther)	None observed
Terrestrial - Ruderal	
Percentage of site that is ruderal	<0.1
Dominant vegetation type (**L**andscaped, **A**griculture, **B**are ground)	NA (covered)
Prominent height of vegetation (0', >0' to <2', 2' to 5', >5')	NA
Density of vegetation (**D**ense, **P**atchy, **S**parse)	NA
Evidence / observation of wildlife (**M**acroinvertebrates, **R**eptiles, **A**mphibians, **B**irds, **M**ammals, **O**ther)	NA
Aquatic - Non-flowing (lentic)	
Percentage of site that is covered by lakes or ponds	0
Type of water bodies (**L**akes, **P**onds, **V**ernal pools, **I**mpoundments, **Lag**oon, **R**eservoir, **C**anal)	NA
Size (acres), average depth (feet), trophic status of water bodies	NA
Source water (**R**iver, **St**ream, **G**roundwater, **I**ndustrial discharge, **Su**rface water runoff)	NA
Water discharge point (**N**one, **R**iver, **St**ream, **G**roundwater, **W**etlands impoundment)	NA
Nature of bottom (**M**uddy, **R**ocky, **S**and, **C**oncrete, **O**ther)	NA
Vegetation present (**S**ubmerged, **E**mergent, **F**loating)	NA
Obvious wetlands present (**Y**es / **N**o)	N

Evidence / observation of wildlife (**M**acroinvertebrates, **R**eptiles, **A**mphibians, **B**irds, **M**ammals, **O**ther)	NA
Aquatic - Flowing (lotic)	
Percentage of site that is covered by rivers, streams (brooks, creeks), intermittent streams, dry wash, arroyo, ditches, or channel waterway	0
Type of water bodies (**R**ivers, **S**treams, **I**ntermittent Streams, **D**ry wash, **A**rroyo, **D**itches, **C**hannel waterway)	None
Size (acres), average depth (feet), approximate flow rate (cfs) of water bodies	NA
Bank environment (cover: **V**egetated, **B**are / slope: **S**teep, **G**radual / height (in feet))	NA
Source water (**R**iver, **St**ream, **G**roundwater, **I**ndustrial discharge, **Su**rface water runoff)	NA
Tidal influence (**Y**es / **N**o)	NA
Water discharge point (**N**one, **R**iver, **St**ream, **G**roundwater, **W**etlands impoundment)	NA
Nature of bottom (**M**uddy, **R**ocky, **S**and, **C**oncrete, **O**ther)	NA
Vegetation present (**S**ubmerged, **E**mergent, **F**loating)	NA
Obvious wetlands present (**Y**es / **N**o)	NA
Evidence / observation of wildlife (**M**acroinvertebrates, **R**eptiles, **A**mphibians, **B**irds, **M**ammals, **O**ther)	NA
Aquatic - Wetlands	
Obvious or designated wetlands present (**Y**es / **N**o)	N
Wetlands suspected as site is/has (**A**djacent to water body, in **F**loodplain, **S**tanding water, **D**ark wet soils, **M**ud cracks, **D**ebris line, **W**ater marks)	NA
Vegetation present (**S**ubmerged, **E**mergent, **S**crub/shrub, **W**ooded)	NA
Size (acres) and depth (feet) of suspected wetlands	NA
Source water (**R**iver, **St**ream, **G**roundwater, **I**ndustrial discharge, **Su**rface water runoff)	NA
Water discharge point (**N**one, **R**iver, **St**ream, **G**roundwater, **I**mpoundment)	NA
Tidal influence (**Y**es / **N**o)	NA
Evidence / observation of wildlife (**M**acroinvertebrates, **R**eptiles, **A**mphibians, **B**irds, **M**ammals, **O**ther)	NA

Part ❸

*** P**: Photographic documentation of these features is highly recommended.

ECOLOGICALLY IMPORTANT SPECIES / HABITATS OBSERVED
None observed. The site is covered by buildings or paving. There is no exposed soil and no surface
water. The site is surrounded by heavy industry and there is heavy equipment, traffic and other site
operations which would inhibit any significant number of ecological receptors to frequent the site.

Part ❹

ATTACHMENT 2
Evaluation of Receptor-Pathway Interactions

EVALUATION OF ON-SITE RECEPTOR-PATHWAY INTERACTIONS	Y	N	U
Are hazardous substances present or potentially present in surface waters? **AND** **Are ecologically important species or habitats present?** **AND** **Could hazardous substances reach these receptors via surface water?**		X X X	
When answering the above questions, consider the following: • Known or suspected presence of hazardous substances in surface waters. • Ability of hazardous substances to migrate to surface waters. • Terrestrial organisms may be dermally exposed to water-borne contaminants as a result of wading or swimming in contaminated waters. Aquatic receptors may be exposed through osmotic exchange, respiration or ventilation of surface waters. • Contaminants may be taken-up by terrestrial plants whose roots are in contact with surface waters. • Terrestrial receptors may ingest water-borne contaminants if contaminated surface waters are used as a drinking water source.			
Are hazardous substances present or potentially present in groundwater? *<u>*NOTE*</u> **AND** **Are ecologically important species or habitats present?** **AND** **Could hazardous substances reach these receptors via groundwater?**	X	 X X	
When answering the above questions, consider the following: • Known or suspected presence of hazardous substances in groundwater. • Ability of hazardous substances to migrate to groundwater. • Potential for hazardous substances to migrate via groundwater and discharge into habitats and/or surface waters. • Contaminants may be taken-up by terrestrial and rooted aquatic plants whose roots are in contact with groundwater present within the root zone (~1m depth). • Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.			

"Y" = yes; "N" = No, "U" = Unknown (counts as a "Y")

<u> site related chemicals are present, but below background or concentrations known to pose a potential ecological risk.</u>*

ATTACHMENT 2

Evaluation of Receptor-Pathway Interactions (cont'd)

EVALUATION OF ON-SITE RECEPTOR-PATHWAY INTERACTIONS	Y	N	U
Are hazardous substances present or potentially present in the sediment ? **AND** **Are ecologically important species or habitats present?** **AND** **Could hazardous substances reach these receptors via sediment?**		 X X	X
When answering the above questions, consider the following: • Known or suspected presence of hazardous substances in sediment. • Ability of hazardous substances to leach or erode from surface soils and be carried into sediment via surface runoff. • Potential for contaminated groundwater to upwell through, and deposit contaminants in, sediments. • If sediments are present in an area that is only periodically inundated with water, terrestrial species may be dermally exposed during dry periods. Aquatic receptors may be directly exposed to sediments or may be exposed through osmotic exchange, respiration or ventilation of sediment pore waters. • Terrestrial plants may be exposed to sediment in an area that is only periodically inundated with water. • If sediments are present in an area that is only periodically inundated with water, terrestrial species may have direct access to sediments for the purposes of incidental ingestion. Aquatic receptors may regularly or incidentally ingest sediment while foraging.			
Are hazardous substances present or potentially present in prey or food items of ecologically important receptors? **AND** **Are ecologically important species or habitats present?** **AND** **Could hazardous substances reach these receptors via consumption of food items?**		X X X	
When answering the above questions, consider the following: • Higher trophic level terrestrial and aquatic consumers and predators may be exposed through consumption of contaminated food sources. • In general, organic contaminants with log K_{ow} > 3.5 may accumulate in terrestrial mammals and those with a log K_{ow} > 5 may accumulate in aquatic vertebrates.			

"Y" = yes; "N" = No, "U" = Unknown (counts as a "Y")

ATTACHMENT 2 Evaluation of Receptor-Pathway Interactions (cont'd)

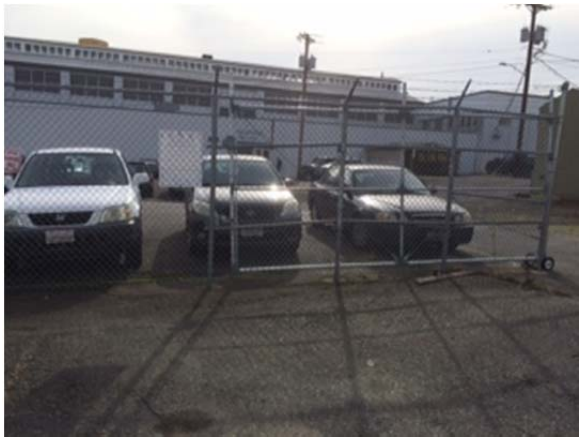
EVALUATION OF ON-SITE RECEPTOR-PATHWAY INTERACTIONS	Y	N	U
Are hazardous substances present or potentially present in surficial soils? **AND** **Are ecologically important species or habitats present?** **AND** **Could hazardous substances reach these receptors via incidental ingestion of or dermal contact with surficial soils?**		X X X	
When answering the above questions, consider the following: • Known or suspected presence of hazardous substances in surficial (~1m depth) soils. • Ability of hazardous substances to migrate to surficial soils. • Significant exposure via dermal contact would generally be limited to organic contaminants that are lipophilic and can cross epidermal barriers. • Exposure of terrestrial plants to contaminants present in particulates deposited on leaf and stem surfaces by rain striking contaminated soils (i.e., rain splash). • Contaminants in bulk soil may partition into soil solution, making them available to roots. • Incidental ingestion of contaminated soil could occur while animals grub for food resident in the soil, feed on plant matter covered with contaminated soil or while grooming themselves clean of soil.			
Are hazardous substances present or potentially present in soils? **AND** **Are ecologically important species or habitats present?** **AND** **Could hazardous substances reach these receptors via vapors or fugitive dust carried in surface air or confined in burrows?**	X	 X X	
When answering the above questions, consider the following: • Volatility of the hazardous substance (volatile chemicals generally have Henry's Law constant > 10^{-5} atm-m^3/mol and molecular weight < 200 g/mol). • Exposure via inhalation is most important to organisms that burrow in contaminated soils, given the limited amounts of air present to dilute vapors and an absence of air movement to disperse gases. • Exposure via inhalation of fugitive dust is particularly applicable to ground-dwelling species that could be exposed to dust disturbed by their foraging or burrowing activities or by wind movement. • Foliar uptake of organic vapors would be limited to those contaminants with relatively high vapor pressures. • Exposure of terrestrial plants to contaminants present in particulates deposited on leaf and stem surfaces.			

“Y” = yes; “N” = No, “U” = Unknown (counts as a “Y”)

APPENDIX B

SITE PHOTOS

SW of Urban Forest Pro (Tree Service)



SE Corner of Urban Forest Pro

NW 2nd Place

Between 2245 and 2258 NW Suffolk

Between 2245 and 2258 NW Suffolk

Lot between buildings

Railroad Spur

Views across the property- roads, parking and miscellaneous storage

8101-A

APPENDIX 3

RARE, THREATENED AND ENDANGERED SPECIES

OREGON BIODIVERSITY INFORMATION CENTER

Institute for Natural Resources
Portland State UNIVERSITY
Mail Stop: INR
Post Office Box 751
Portland, Oregon 97207
503.725.9950
http://orbic.pdx.edu

November 9, 2016

Regina Skarzinskas
Technical Assessment Services, Inc.
7870 SW Bristol Court
Beaverton, OR 97007

Dear Ms. Skarzinskas:

Thank you for requesting information from the Oregon Biodiversity Information Center (ORBIC). We have conducted a data system search for rare, threatened and endangered plant and animal records for your States Battery ESCI 1007 Project in 2245 and 2258 NW Suffolk St and 2740 and 2538 NW 22nd Pl.

Seventeen (17) element occurrence records were noted within a two-mile radius of your project and are included on the enclosed computer printout.

Please remember that a lack of rare element information from a given area does not necessarily indicate there are no significant elements present, only that there is no information known to us from the site. To ensure there are no significant elements present that may be affected by your project, you should inventory the site during the appropriate season.

This data is confidential and for the specific purposes of your project and is **not to be distributed**. Please also note that as our database is continually updated, the data in this report should be considered current for a maximum of one year from the date it was generated and should not be cited thereafter.

Please forward the included invoice to the appropriate party in your organization for payment.

If you need additional information or have any further questions, please do not hesitate to contact me.

Sincerely,

Lindsey Wise

Lindsey Wise
Biodiversity Data Manager
lindsey.wise@pdx.edu
503.725.9951

encl.: **invoice (H-110916-LKW1)**
computer printout and data key

Scientific Name: ***Acipenser medirostris***
Common Name: **Green sturgeon**

EO NUM: 1
EO ID: 19198

Federal Status: SOC GRANK: G3 NHP List:
State Status: SRANK: S3 HP Track: N
Confirmed: First Obs: Last Obs: EO Rank:

Category: Vertebrate Animal
ELCODE: AFCAA01030

Directions: COLUMBIA RIVER AND ESTUARY, UPSTREAM TO BONNEVILLE DAM. WILLAMETTE RIVER BELOW WILLAMETTE FALLS.

County Name	Ecoregion	Owner Name/Type
Clackamas	CR	STATE
Clatsop	ME	
Columbia	WC	
Multnomah	WV	

Watershed
- 170800010801 - Tanner Creek-Columbia River
- 170800010802 - Hamilton Creek-Columbia River
- 170800010803 - Viento Creek-Columbia River
- 170800010804 - Latourell Creek-Columbia River
- 170800030200 - Hayden Island-Columbia River
- 170800030900 - Cathlamet Channel-Columbia River
- 170800060500 - Baker Bay-Columbia River
- 170900070405 - Tanner Creek-Willamette River
- 170900120104 - Oswego Creek-Willamette River
- 170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note
001N001E	01	
001N001E	18	
001N001E	19	
001N001E	20	
001N001E	21	
001N001E	27	
001N001E	28	
001N001E	34	
001N001W	02	
001N001W	11	
001N001W	12	
001N001W	13	
001N002E	03	
001N002E	04	
001N002E	05	
001N002E	06	
001N002E	10	
001N002E	11	
001N002E	12	
001N003E	07	
001N003E	13	
001N003E	14	
001N003E	15	
001N003E	16	
001N003E	17	
001N004E	18	
001N004E	20	
001N004E	26	
001N004E	27	
001N004E	28	
001N005E	12	
001N005E	14	
001N005E	15	
001N005E	19	
001N005E	20	
001N005E	21	
001N006E	03	
001N006E	04	
001N006E	07	
001N006E	08	
001S001E	03	
001S001E	10	
001S001E	15	

QuadCode	QuadName
45121-E8	Tanner Butte
45121-F8	Bonneville Dam
45122-C5	Oregon City
45122-D5	Gladstone
45122-D6	Lake Oswego
45122-E1	Multnomah Falls
45122-E2	Bridal Veil
45122-E3	Washougal
45122-E4	Camas
45122-E5	Mount Tabor
45122-E6	Portland
45122-E7	Linnton
45122-F6	Vancouver
45122-F7	Sauvie Island
45122-G7	Saint Helens
45122-H7	Deer Island
46122-A7	Kalama
46122-A8	Rainier
46122-B8	Kelso
46123-B1	Coal Creek
46123-B2	Oak Point
46123-B3	Nassa Point
46123-B4	Cathlamet
46123-B6	Cathlamet Bay
46123-B7	Astoria
46123-B8	Warrenton
46123-C4	Skamokawa
46123-C5	Grays River
46123-C6	Rosburg
46124-B1	Clatsop Spit

Managed Area Name

001S001E	22
001S001E	26
001S001E	27
001S001E	35
002N001E	19
002N001E	20
002N001E	28
002N001E	29
002N001E	33
002N001E	34
002N001E	35
002N001W	02
002N001W	11
002N001W	13
002N001W	14
002N001W	22
002N001W	23
002N001W	24
002N001W	27
002N001W	34
002N001W	35
002N006E	34
002N006E	35
002N006E	36
002N007E	21
002N007E	29
002N007E	30
002N007E	31
002S001E	02
002S001E	11
002S001E	13
002S001E	14
002S001E	24
002S002E	19
002S002E	30
002S002E	31
003N001W	02
003N001W	11
003N001W	26
003N001W	35
004N001W	03
004N001W	10
004N001W	15
004N001W	22
004N001W	27
004N001W	35
005N001W	04
005N001W	09
005N001W	16
005N001W	21
005N001W	27
005N001W	34
006N001W	07
006N001W	18
006N001W	19
006N001W	20
006N001W	29
006N001W	33
006N002W	01
006N002W	12
007N002W	06
007N002W	07
007N002W	08
007N002W	15

007N002W	16
007N002W	23
007N002W	25
007N002W	26
007N002W	36
007N003W	01
008N003W	19
008N003W	20
008N003W	27
008N003W	28
008N003W	35
008N003W	36
008N004W	10
008N004W	11
008N004W	13
008N004W	16
008N004W	17
008N004W	19
008N004W	20
008N005W	24
008N005W	25
008N005W	26
008N005W	27
008N005W	28
008N005W	29
008N005W	30
008N006W	04
008N006W	09
008N006W	15
008N006W	16
008N006W	22
008N006W	23
008N006W	25
008N006W	26
008N009W	03
008N009W	07
008N010W	04
008N010W	10
008N010W	12
009N006W	18
009N006W	20
009N006W	28
009N006W	33
009N007W	15
009N008W	20
009N008W	21
009N008W	22
009N008W	29
009N009W	35
009N009W	36
009N010W	31

Source Feature	Uncertainty Type (Distance) [Use Class]		Annual Observations
19198 - Line	Linear (8 m)	Undetermined	
38085 - Line	Linear (8 m)	Undetermined	

SFeat ID	Date	Visit data

Occurence Data

EO Type: YEAR-ROUND - fish

Min. Elev.(m):

EO Data: NO COLLECTION INFORMATION AVAILABLE. GREEN STURGEON ADULTS ARE ABUNDANT AND THE NUMBERS ARE STABLE IN THE LOWER COLUMBIA RIVER. THEY ARE RARELY FOUND IN THE COLUMBIA RIVER FROM PUGET ISLAND (RM40) UPSTREAM TO BONNEVILLE DAM AND TO WILLAMETTE FALLS IN THE WILLAMETTE RIVER. (1995 ODFW BIENNIAL REPORT ON THE STATUS OF WILD FISH IN OREGON)

EO Comments:
Protection:
Management:
Specimens:
General: GREEN STURGEON NOT ABUNDANT IN ANY PACIFIC COAST ESTUARY. LITTLE IS KNOWN ABOUT ITS LIFE HISTORY. THIS SPECIES MORE MARINE ORIENTED THAN WHITE STURGEON AND SPENDS LIMITED AMOUNT OF TIME IN FRESHWATER (EXCEPT PERHAPS EARLY JUVENILES AND SPAWNING ADULTS). B91NOA01ORUS.

Scientific Name: ***Batrachoseps wrighti***
Common Name: **Oregon slender salamander**
EO NUM: 275
EO ID: 36898
Federal Status: SOC GRANK: G3 NHP List: 4
State Status: SV SRANK: S3 HP Track: W
Category: Vertebrate Animal
ELCODE: AAAAD02100
Confirmed: First Obs: 2009 Last Obs: 2009 EO Rank: E - Verified extant (viability not assessed)
Directions: Upper Macleay Park/Willamette Heights. In Portland.

County Name	Ecoregion	Owner Name/Type	Watershed
Multnomah	WV		170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note	QuadCode	QuadName	Managed Area Name
001N001E	32		45122-E6	Portland	

Source Feature	Uncertainty Type (Distance) [Use Class]	Annual Observations
74757 - Point	Estimated (100 m) Not applicable	

SFeat ID	Date	Visit data
74757	2009	Salamanders observed during ODFW Oregon Slender Project.

Occurence Data
EO Type:
EO Data: 2009: Salamanders observed during ODFW Oregon Slender Project.
Min. Elev.(m): 76
EO Comments:
Protection:
Management:
Specimens:
General:

Scientific Name: ***Carex comosa***
Common Name: **Bristly sedge**
EO NUM: 5
EO ID: 24321
Federal Status:
State Status:
GRANK: G5 NHP List: 2
SRANK: S1 HP Track: Y
Category: Vascular Plant
ELCODE: PMCYP032Y0
Confirmed: First Obs: 1887-03-06 Last Obs: 1887-03-06 EO Rank: X - Extirpated
Directions: "[SWAN] ISLAND" [BRACKETED INFORMATION CAME FROM THE CAREX WORKING GROUP-ONHP/SV, 5/97]

County Name	Ecoregion	Owner Name/Type	Watershed
Multnomah	WV	PRIVATE	170900120201 - Columbia Slough 170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note	QuadCode	QuadName	Managed Area Name
001N001E	20		45122-E6	Portland	

Source Feature	Uncertainty Type (Distance) [Use Class]	Annual Observations
24321 - Point	Estimated (1500 m)	

SFeat ID	Date	Visit data
24321	1887-03-06	HERBARIUM COLLECTION: L.F. HENDERSON, S.N., 3-6-1887, ORE-16644. HERBARIUM COLLECTION: L.F. HENDERSON, S.N., 3-6-1887, ORE-16644.

Occurence Data
EO Type:
EO Data: HERBARIUM COLLECTION: L.F. HENDERSON, S.N., 3-6-1887, ORE-16644.
Min. Elev.(m): 6
EO Comments:
Protection:
Management:

Specimens: HENDERSON (S.N.). 3-6-1887. ORE-16644
General: HERBARIUM COLLECTION: L.F. HENDERSON, S.N., 3-6-1887, ORE-16644.

Scientific Name: ***Chrysemys picta***
Common Name: **Painted turtle**
EO NUM: 60
EO ID: 23920
Federal Status:
State Status: SC
GRANK: G5
SRANK: S2
NHP List: 2
HP Track: Y
Category: Vertebrate Animal
ELCODE: ARAAD01010
Confirmed: First Obs: 1991-08-02 Last Obs: 1991-08-09 EO Rank: C - Fair estimated viability
Directions: PORTLAND AUDUBON SOCIETY POND, 5151 NW CORNELL RD.

County Name	Ecoregion	Owner Name/Type	Watershed
Multnomah	CR	PRIVATE	170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note	QuadCode	QuadName	Managed Area Name
001N001E	31		45122-E6	Portland	

Source Feature	Uncertainty Type (Distance) [Use Class]	Annual Observations
23920 - Point	Estimated (50 m) Not applicable	

SFeat ID	Date	Visit data

Occurence Data
EO Type:
EO Data: 1991: 1 INDIVIDUAL OBSERVED.
Min. Elev.(m): 137
EO Comments:
Protection:
Management:
Specimens:
General:

Scientific Name: ***Chrysemys picta***
Common Name: **Painted turtle**
EO NUM: 61
EO ID: 20014
Federal Status:
State Status: SC
GRANK: G5
SRANK: S2
NHP List: 2
HP Track: Y
Category: Vertebrate Animal
ELCODE: ARAAD01010
Confirmed: First Obs: 1965-04-10 Last Obs: 1965-04-10 EO Rank: H - Historical
Directions: HOYT PARK, FAIRVIEW BOULEVARD.

County Name	Ecoregion	Owner Name/Type	Watershed
Multnomah	CR	CITY	170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note	QuadCode	QuadName	Managed Area Name
001S001E	05		45122-E6	Portland	

Source Feature	Uncertainty Type (Distance) [Use Class]	Annual Observations
20014 - Point	Estimated (800 m) Not applicable	

SFeat ID	Date	Visit data
20014	1965-04-10	1965: 1 INDIVIDUAL COLLECTED OBSERVER: CAVANAGH, R. PORTLAND STATE UNIVERSITY SPECIMEN #002431.

Occurence Data
EO Type:
EO Data: 1965: 1 INDIVIDUAL COLLECTED
Min. Elev.(m): 235
EO Comments:
Protection:
Management:
Specimens:
General: OBSERVER: CAVANAGH, R. PORTLAND STATE UNIVERSITY SPECIMEN #002431.

Scientific Name: ***Cimicifuga elata var. elata***
Common Name: **Tall bugbane**
EO NUM: 77
EO ID: 19613

Federal Status:
State Status: C
GRANK: G4T4
SRANK: S4
NHP List: 4
HP Track: Y
Category: Vascular Plant
ELCODE: PDRAN0T012

Confirmed: First Obs: 1993-07-08 Last Obs: 1993-07-08 EO Rank: D - Poor estimated viability
Directions: FOREST PARK, LOWER MACLEAY TRAIL

County Name	Ecoregion	Owner Name/Type	Watershed
Multnomah	WV	CITY	170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note	QuadCode	QuadName	Managed Area Name
001N001E	33		45122-E6	Portland	

Source Feature	Uncertainty Type (Distance) [Use Class]	Annual Observations
19613 - Point	Estimated (50 m)	• 1993 - 1 PLANT

SFeat ID	Date	Visit data
19613	1993-07-08	1 PLANT, BEGINNING TO BLOOM TRAILSIDE 1993 PERSONAL COMMUNICATION THROUGH LOIS KEMP

Occurence Data
EO Type:
EO Data: 1 PLANT, BEGINNING TO BLOOM
Min. Elev.(m): 61
EO Comments: TRAILSIDE
Protection:
Management:
Specimens:
General: 1993 PERSONAL COMMUNICATION THROUGH LOIS KEMP

Scientific Name: ***Corynorhinus townsendii***
Common Name: **Townsend's big-eared bat**
EO NUM: 94
EO ID: 6409

Federal Status: SOC
State Status: SC
GRANK: G4
SRANK: S2
NHP List: 2
HP Track: Y
Category: Vertebrate Animal
ELCODE: AMACC08010

Confirmed: First Obs: 1914 Last Obs: 1928-09-05 EO Rank: H - Historical
Directions: Sensitive Data - contact ORBIC for more information

County Name	Ecoregion	Owner Name/Type	Watershed
Multnomah	WV	PRIVATE	170800030104 - Lake River-Frontal Columbia River 170800030200 - Hayden Island-Columbia River 170900100401 - Beaverton Creek 170900100502 - Fanno Creek 170900120103 - Lower Johnson Creek 170900120201 - Columbia Slough 170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note	Managed Area Name
001N001E			

Source Feature	Uncertainty Type (Distance) [Use Class]	Annual Observations
6409 - Point	Estimated (8050 m) Undetermined	

SFeat ID	Date	Visit data

Occurence Data
EO Type:
EO Data: Sensitive Data - contact ORBIC for more information
Min. Elev.(m): 46
EO Comments:
Protection:
Management:
Specimens:
General:

Scientific Name: ***Entosphenus tridentatus***
Common Name: **Pacific lamprey**

EO NUM: 56
EO ID: 38458

Federal Status: SOC GRANK: G4 NHP List: 2
State Status: SV SRANK: S1S2 HP Track: Y
Category: Vertebrate Animal
ELCODE: AFBAA02100

Confirmed: First Obs: 2011 Last Obs: 2012
EO Rank: E - Verified extant (viability not assessed)

Directions: Lower Columbia to Willamette

County Name	Ecoregion	Owner Name/Type
Clackamas	CR	
Columbia	WV	
Multnomah		

Watershed
- 170800010804 - Latourell Creek-Columbia River
- 170800030200 - Hayden Island-Columbia River
- 170800030900 - Cathlamet Channel-Columbia River
- 170900070405 - Tanner Creek-Willamette River
- 170900120101 - Upper Johnson Creek
- 170900120102 - Kellogg Creek
- 170900120103 - Lower Johnson Creek
- 170900120104 - Oswego Creek-Willamette River
- 170900120202 - Balch Creek-Willamette River
- 170900120301 - South Scappoose Creek
- 170900120302 - North Scappoose Creek
- 170900120303 - Milton Creek
- 170900120304 - Scappoose Creek
- 170900120305 - Multnomah Channel

Town-Range	Sec	Note
001N001E	18	
001N001E	19	
001N001E	20	
001N001E	21	
001N001E	27	
001N001E	28	
001N001E	34	
001N001W	02	
001N001W	11	
001N001W	12	
001N001W	13	
001N002E	03	
001N002E	04	
001N002E	05	
001N002E	06	
001N002E	11	
001N002E	12	
001N003E	07	
001N003E	13	
001N003E	14	
001N003E	15	
001N003E	16	
001N003E	17	
001S001E	03	
001S001E	10	
001S001E	15	
001S001E	22	
001S001E	23	
001S001E	24	
001S001E	26	
001S001E	27	
001S001E	35	
001S001E	36	
001S002E	13	
001S002E	15	
001S002E	19	
001S002E	20	
001S002E	21	
001S002E	22	
001S002E	23	

QuadCode	QuadName
45122-C5	Oregon City
45122-D4	Damascus
45122-D5	Gladstone
45122-D6	Lake Oswego
45122-E4	Camas
45122-E5	Mount Tabor
45122-E6	Portland
45122-E7	Linnton
45122-F6	Vancouver
45122-F7	Sauvie Island
45122-F8	Dixie Mountain
45122-G7	Saint Helens
45122-G8	Chapman
45122-H8	Trenholm

Managed Area Name

001S002E	24
001S002E	25
001S002E	26
001S002E	29
001S002E	30
001S002E	34
001S002E	35
001S003E	16
001S003E	17
001S003E	18
002N001E	19
002N001E	20
002N001E	28
002N001E	29
002N001E	34
002N001E	35
002N001W	02
002N001W	11
002N001W	13
002N001W	14
002N001W	22
002N001W	23
002N001W	24
002N001W	27
002N001W	34
002N001W	35
002S001E	01
002S001E	02
002S001E	11
002S001E	13
002S001E	14
002S001E	24
002S002E	03
002S002E	04
002S002E	05
002S002E	06
002S002E	19
002S002E	30
003N001W	02
003N001W	23
003N001W	26
003N001W	35
003N002W	01
003N002W	02
003N002W	12
003N002W	13
003N002W	14
003N002W	15
003N002W	22
004N001W	03
004N001W	04
004N001W	05
004N001W	06
004N001W	09
004N001W	10
004N001W	15
004N001W	16
004N001W	17
004N001W	20
004N001W	22
004N001W	27
004N001W	29
004N001W	30
004N001W	31

004N001W	35
004N002W	01
004N002W	02
004N002W	27
004N002W	34
004N002W	35
004N002W	36
005N001W	31
005N001W	32
005N002W	16
005N002W	17
005N002W	21
005N002W	22
005N002W	26
005N002W	27
005N002W	35

Source Feature	Uncertainty Type (Distance) [Use Class]		Annual Observations
76686 - Line	Negligible (8 m)	Freshwater	
76684 - Line	Negligible (8 m)	Freshwater	
63524 - Line	Negligible (8 m)	Undetermined	
63315 - Line	Negligible (8 m)	Undetermined	
62956 - Line	Negligible (8 m)	Undetermined	
63625 - Line	Negligible (8 m)	Undetermined	
63420 - Line	Negligible (8 m)	Undetermined	
63081 - Line	Negligible (8 m)	Undetermined	
63084 - Line	Negligible (8 m)	Undetermined	
63684 - Line	Negligible (8 m)	Undetermined	
63393 - Line	Negligible (8 m)	Undetermined	
63936 - Line	Negligible (8 m)	Freshwater	
63373 - Line	Negligible (8 m)	Undetermined	
63920 - Line	Negligible (8 m)	Freshwater	
63853 - Line	Negligible (8 m)	Freshwater	
63854 - Line	Negligible (8 m)	Freshwater	
63852 - Line	Negligible (8 m)	Freshwater	

SFeat ID	Date	Visit data
63684	2012	Use type: Unknown. Downstream documented fish observation. Agency data steward: Erik Suring.
63625	2012	Use type: Unknown. Downstream documented fish observation. Agency data steward: Erik Suring.
63373	2011	Use type: Spawning. Documented fish observation. Agency data steward: Eric Brown.
62956	2011	Use type: Unknown. Documented fish observation. Agency data steward: .
63420	2011	Use type: Unknown. Downstream documented fish observation. Agency data steward: Eric Brown.
63393	2011	Use type: Spawning. Documented fish observation. Agency data steward: Eric Brown.
63081	2011	Use type: Unknown. Documented fish observation. Agency data steward: Erik Suring.
63084	2011	Use type: Unknown. Downstream documented fish observation. Agency data steward: Erik Suring.
63920	2011	Use type: Spawning. Documented fish observation. Agency data steward: Eric Brown.
63852	2011	Use type: Spawning. Documented fish observation. Agency data steward: Eric Brown.
63853	2011	Use type: Spawning. Documented fish observation. Agency data steward: Eric Brown.
63854	2011	Use type: Spawning. Documented fish observation. Agency data steward: Eric Brown.
63936	2011	Use type: Spawning. Documented fish observation. Agency data steward: Eric Brown.
63524	2011	Use type: Spawning. Documented fish observation. Agency data steward: Eric Brown.
63315	2011	Use type: Spawning. Documented fish observation. Agency data steward: Eric Brown.

Occurence Data

EO Type:

Min. Elev.(m):

EO Data: 2011: Use type: Unknown. Documented fish observation. Agency data steward: .

EO Comments:

Protection:

Management:

Specimens:

General: From the 2012 edition of the ODFW Oregon Fish Habitat Distribution - Pacific Lamprey geodatabase; these data are based on sampling and describe areas of suitable habitat currently and historically used by Pacific lamprey populations.

Scientific Name: ***Falco peregrinus anatum***
Common Name: **American peregrine falcon**
EO NUM: 13
EO ID: 18668
Federal Status:
State Status: SV
GRANK: G4T4
SRANK: S3
NHP List: 4
HP Track: Y
Category: Vertebrate Animal
ELCODE: ABNKD06071
Confirmed:
First Obs: 1994
Last Obs: 2003
EO Rank: E - Verified extant (viability not assessed)
Directions: Sensitive Data - contact ORBIC for more information

County Name	Ecoregion	Owner Name/Type
Multnomah	WV	STATE

Watershed
170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note
001N001E	27	
001N001E	28	

QuadCode	QuadName
45122-E6	Portland

Managed Area Name
STATE HIGHWAY MAINTENANCE DIST 2B

Source Feature	Uncertainty Type (Distance)	[Use Class]
18668 - Point	Estimated (50 m)	Undetermined

Annual Observations
- 2003 - 3 young captured and released, 1 fledged
- 2002 - ORNHIC has not received data yet
- 2001 - ORNHIC has not received data yet
- 2000 - ORNHIC has not received data yet
- 1999 - ORNHIC has not received data yet
- 1998 - active nest, 4 young
- 1997 - active nest, 2 young
- 1996 - active nest, 2 young
- 1995 - active nest, 1 young
- 1994 - active nest, 1 young
- 1993 - occupied nest, inactive

SFeat ID	Date	Visit data

Occurence Data
EO Type: BREEDING SITE
Min. Elev.(m): 15
EO Data: Documented nesting site. See annual observations.
EO Comments:
Protection:
Management:
Specimens:
General: Site OE-026 and USFWS site 8. 2003: Human intervention affected outcome, 3 young captured and released, 1 fledged.

Scientific Name: ***Fisherola nuttalli***
Common Name: **Shortface lanx (=Giant Columbia River limpet)**
EO NUM: 3
EO ID: 20861
Federal Status:
State Status:
GRANK: G2
SRANK: S1S2
NHP List: 1
HP Track: Y
Category: Invertebrate Animal
ELCODE: IMGASL6010
Confirmed:
First Obs: 1982
Last Obs: 1985
EO Rank: D - Poor estimated viability
Directions: COLUMBIA RIVER, NEAR PORTLAND

County Name	Ecoregion	Owner Name/Type
Multnomah	WV	STATE

Watershed
170800030101 - Burnt Bridge Creek
170800030103 - Lower Salmon Creek
170800030104 - Lake River-Frontal Columbia River
170800030200 - Hayden Island-Columbia River
170900120201 - Columbia Slough
170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note
002N001E	35	

QuadCode	QuadName
45122-E5	Mount Tabor
45122-E6	Portland
45122-E7	Linnton
45122-F6	Vancouver
45122-F7	Sauvie Island

Managed Area Name

Source Feature	Uncertainty Type (Distance)	[Use Class]
20861 - Point	Estimated (8050 m)	Not applicable

Annual Observations

SFeat ID | Date | Visit data

Occurence Data

EO Type:

Min. Elev.(m): 5

EO Data: SAMPLED BY FREST '88 - POPULATION MAY BE EXTINCT. TAYLOR OBSERVED IN '82 AND '85.

EO Comments: STREAM SIZE EVIDENTLY NOT A FACTOR IF IT IS RELATIVELY UNPOLLUTED, COLD AND WELL OXYGENATED, WITH PERMANENT FLOW AND A COBBLE-BOULDER SUBSTRATE; THESE CONDITIONS OCCUR IN RAPIDS.

Protection:

Management:

Specimens:

General: SURVEY OF COLUMBIA RIVER BASIN STREAMS FOR GIANT COLUMBIA RIVER SPIRE SNAIL AND GREAT COLUMBIA RIVER LIMPET, PACIFIC NW LABORATORY 10-89.

Scientific Name: ***Fluminicola virens***

Common Name: **Olympia pebblesnail**

EO NUM: 1

EO ID: 32254

Federal Status: GRANK: G2 NHP List: 2

State Status: SRANK: S2 HP Track: Y

Category: Invertebrate Animal

ELCODE: IMGASG3130

Confirmed: First Obs: 1996-pre Last Obs: 1996-pre EO Rank: H - Historical

Directions: Willamette River, from Corvallis to its mouth, and the lower Columbia River below Portland.

County Name	Ecoregion	Owner Name/Type
Benton	WV	
Clackamas		
Linn		
Marion		
Multnomah		
Polk		
Yamhill		

Watershed

170800030200 - Hayden Island-Columbia River
170900030609 - Fraizer Creek-Willamette River
170900030610 - Truax Creek-Willamette River
170900030611 - McCarthy Slough-Willamette River
170900070101 - Bashaw Creek-Willamette River
170900070107 - Wilkerson Creek-Willamette River
170900070301 - Croisan Creek-Willamette River
170900070303 - Glenn Creek-Willamette River
170900070304 - Lambert Slough-Willamette River
170900070307 - Hess Creek-Willamette River
170900070401 - Corral Creek-Willamette River
170900070402 - Coffee Lake Creek-Willamette River
170900070405 - Tanner Creek-Willamette River
170900120104 - Oswego Creek-Willamette River
170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note
005S003W	01	
005S003W	11	
004S003W	27	
004S003W	22	
007S003W	28	
010S004W	11	
004S003W	14	
007S003W	29	
007S003W	30	
006S003W	16	
009S004W	24	
009S004W	23	
007S004W	25	
009S003W	18	
009S004W	26	
009S004W	35	
009S004W	36	
010S004W	02	
004S001W	06	
010S004W	14	
007S004W	36	
006S003W	20	
007S003W	31	

QuadCode	QuadName
44123-E2	Riverside
44123-E3	Corvallis
44123-F1	Albany
44123-F2	Lewisburg
44123-G1	Sidney
44123-G2	Monmouth
44123-H1	Salem West
44123-H2	Rickreall
45122-A8	Gervais
45122-B8	Saint Paul
45122-C5	Oregon City
45122-C6	Canby
45122-C7	Sherwood
45122-C8	Newberg
45122-D5	Gladstone
45122-D6	Lake Oswego
45122-E6	Portland
45122-E7	Linnton
45122-F7	Sauvie Island
45123-A1	Mission Bottom
45123-B1	Dayton
45123-C1	Dundee

Managed Area Name

005S003W	26
010S003W	29
004S003W	35
009S004W	13
007S003W	22
006S003W	09
005S003W	24
009S003W	08
009S003W	07
007S003W	21
009S003W	05
009S003W	06
007S003W	15
006S003W	04
009S004W	01
008S004W	36
007S003W	10
003S001E	10
008S004W	35
003S001E	02
012S005W	02
008S004W	34
003S001E	15
003S001W	23
003S001E	19
003S001E	21
003S001E	23
003S002W	29
003S001W	28
003S001E	27
003S002W	31
003S002W	33
003S002W	35
003S001W	32
004S002W	02
004S003W	12
004S003W	15
004S003W	13
004S003W	23
004S003W	26
004S003W	36
007S003W	03
005S003W	35
005S003W	13
011S005W	36
011S005W	35
008S004W	33
011S004W	28
011S004W	29
005S003W	02
008S004W	28
007S003W	04
011S004W	30
011S005W	25
008S004W	23
010S004W	13
011S004W	21
010S004W	24
011S004W	20
008S004W	22
010S004W	25
010S003W	30
006S003W	21
006S003W	33

008S004W	01
010S003W	32
005S003W	34
011S004W	16
011S004W	10
008S004W	21
011S004W	09
001N001W	12
001N001W	11
011S003W	05
008S004W	14
006S003W	32
001N001W	02
001N001W	13
001N001E	18
001N001E	19
001N001E	20
001N001E	21
001N001E	28
001N001E	27
001N001E	34
001S001E	03
001S001E	10
001S001E	15
001S001E	22
001S001E	27
001S001E	26
001S001E	35
002S001E	02
002S001E	11
002S001E	14
002S001E	13
002S001E	24
002S002E	19
002S002E	30
002S001E	36
002S002E	31
002N001W	35
003S001E	01
011S003W	06
003S001E	11
002N001W	34
003S001W	22
002N001W	27
003S001W	24
011S004W	01
003S001E	20
008S004W	12
003S001E	22
002N001W	23
003S002W	30
002N001W	22
003S001W	29
011S004W	02
003S001W	27
002N001W	13
003S003W	36
002N001W	14
003S002W	32
011S004W	03
003S002W	34
008S004W	11
003S001W	31
006S003W	29

004S003W	01
005S003W	25
004S002W	01
005S003W	14
005S003W	10

Source Feature	Uncertainty Type (Distance) [Use Class]		Annual Observations
55506 - Point	Linear (8 m)	Not applicable	
55507 - Point	Linear (8 m)	Not applicable	
55505 - Point	Linear (8 m)	Not applicable	
55508 - Point	Linear (8 m)	Not applicable	

SFeat ID	Date	Visit data

Occurence Data

EO Type:

EO Data: Five occurences along the Willamette River (from Portland to Corvallis), as described by Hershler and Frest, 1996. Precise locations and collection dates not reported.

Min. Elev.(m):

EO Comments:

Protection:

Management:

Specimens:

General: 5 snails collected along Willamette, as described by Hershler and Frest, 1996.

Scientific Name: ***Oncorhynchus kisutch pop. 1***

Common Name: **Coho salmon (Lower Columbia River ESU)**

EO NUM: 37

EO ID: 3164

Federal Status: LT GRANK: G4T2Q NHP List: 1

State Status: LE SRANK: S2 HP Track: Y

Category: Vertebrate Animal

Confirmed: First Obs: 2001-pre Last Obs: 2009 EO Rank: E - Verified extant (viability not assessed)

ELCODE: AFCHA02031

Directions: SCAPPOOSE BAY, MULTNOMAH CHANNEL, WILLAMETTE RIVER

County Name	Ecoregion	Owner Name/Type
Clackamas	WV	
Columbia		
Multnomah		

Watershed

- 170800030200 - Hayden Island-Columbia River
- 170800030900 - Cathlamet Channel-Columbia River
- 170900070405 - Tanner Creek-Willamette River
- 170900120102 - Kellogg Creek
- 170900120103 - Lower Johnson Creek
- 170900120104 - Oswego Creek-Willamette River
- 170900120201 - Columbia Slough
- 170900120202 - Balch Creek-Willamette River
- 170900120301 - South Scappoose Creek
- 170900120302 - North Scappoose Creek
- 170900120303 - Milton Creek
- 170900120304 - Scappoose Creek
- 170900120305 - Multnomah Channel

Town-Range	Sec	Note
002N001W	06	
002N001W	03	
002N001W	07	
002N001W	17	
002N001W	13	
004N001W	03	
002N001W	22	
002N001W	24	
002N001W	27	
002N001E	30	
002N001W	35	
002N001W	36	
002N001E	32	
001N001E	05	
001N001W	11	

QuadCode	QuadName
45122-C5	Oregon City
45122-D5	Gladstone
45122-D6	Lake Oswego
45122-E6	Portland
45122-E7	Linnton
45122-F6	Vancouver
45122-F7	Sauvie Island
45122-F8	Dixie Mountain
45122-G7	Saint Helens
45122-G8	Chapman
45122-H7	Deer Island

Managed Area Name

001N001W	13
004N001W	09
001N001E	19
001N001E	21
001N001E	27
001S001E	03
001S001E	15
001S001E	22
001S001E	26
001S001E	36
002S001E	02
002S001E	11
002S001E	14
002S001E	10
002S001E	03
001S001E	35
001S001E	27
004N001W	10
001S001E	10
001N001E	34
001N001E	28
001N001E	20
001N001E	17
001N001E	18
001N001W	12
001N001E	06
001N001W	02
002N001E	31
004N001W	08
002N001W	34
002N001W	25
002N001W	28
002N001W	23
002N001W	21
002N001W	20
002N001W	14
002N001W	18
002N002W	12
002N001W	04
005N001W	34
003N001W	35
003N001W	33
003N002W	36
003N001W	28
003N001W	30
003N002W	25
003N001W	22
003N001W	20
003N001W	15
003N001W	17
003N001W	10
003N002W	12
003N001W	04
003N002W	02
004N001W	33
004N001W	31
004N001W	27
004N001W	29
004N001W	21
004N001W	16
002S002E	19
002S001E	13
004N001W	17
002S001E	24

002S002E	30
004N001W	20
004N001W	30
004N001W	28
004N002W	36
004N001W	34
003N002W	01
003N001W	03
003N001W	09
003N002W	14
003N002W	13
003N001W	16
003N001W	19
003N001W	21
003N001W	23
003N001W	29
003N001W	27
003N001W	31
003N001W	34
002N002W	01

Source Feature | Uncertainty Type (Distance) [Use Class] | Annual Observations

Data currently not available.

SFeat ID | Date | Visit data

Occurence Data

EO Type: REARING & MIGRATION - fish Min. Elev.(m):

EO Data: 2009: Classified as rearing by ODFW. Undocumented fish observations. 2001: ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE.

EO Comments: Rearing & migration use.

Protection:

Management:

Specimens:

General: Distribution information used in this EOR was derived from ODFW geographic resources data produced and distributed in 1999. Unless specific data exists in the data field, the information presented in this EOR represents the "best professional judgement" by ODFW's district fisheries biologist; the presence of coho in described areas should be considered undocumented but as having a potential of being present. EOR was updated using ODFW geographic resources data produced and distributed in 2004. Updated with 2009 ODFW data.

Scientific Name: ***Oncorhynchus mykiss pop. 27***

Common Name: **Steelhead (Lower Columbia River ESU, winter run)**

EO NUM: 1

EO ID: 851

Federal Status: LT GRANK: G5T2Q NHP List: 1

State Status: SC SRANK: S2 HP Track: Y

Category: Vertebrate Animal

ELCODE: AFCHA02132

Confirmed: First Obs: 1999-PRE Last Obs: 2009 EO Rank: E - Verified extant (viability not assessed)

Directions: SCAPPOOSE BAY, MULTNOMAH CHANNEL, WILLAMETTE RIVER

County Name | Ecoregion | Owner Name/Type

Clackamas
Columbia
Multnomah

WV

Watershed

170900070405 - Tanner Creek-Willamette River
170900120102 - Kellogg Creek
170900120103 - Lower Johnson Creek
170900120104 - Oswego Creek-Willamette River
170900120201 - Columbia Slough
170900120202 - Balch Creek-Willamette River
170900120303 - Milton Creek
170900120304 - Scappoose Creek
170900120305 - Multnomah Channel

Town-Range	Sec	Note
002N001W	27	
002N001W	24	
002N001W	22	
002N001W	20	

QuadCode	QuadName
45122-C5	Oregon City
45122-D5	Gladstone
45122-D6	Lake Oswego
45122-E6	Portland

Managed Area Name

004N001W	05
002N001W	18
002N002W	12
002N002W	01
003N001W	34
003N001W	31
003N002W	36
003N001W	28
003N002W	25
003N001W	22
003N001W	20
003N001W	16
003N001W	10
003N001W	03
004N001W	34
004N001W	31
004N002W	36
004N001W	28
004N002W	25
004N001W	20
004N001W	16
004N001W	17
004N001W	19
004N001W	21
004N001W	30
004N001W	27
004N001W	33
003N001W	04
003N001W	09
003N001W	17
003N001W	15
003N001W	19
003N001W	21
003N001W	23
003N001W	30
003N001W	27
005N001W	32
003N001W	33
003N001W	35
002N001W	06
002N001W	07
002N001W	17
002N001W	14
002N001W	21
002N001W	23
002N001W	28
002N001W	25
004N001W	04
002N001W	35
002N001E	31
001N001W	02
001N001E	06
001N001W	12
001N001W	13
001N001E	17
001N001E	20
001N001E	28
001N001E	34
004N001W	09
001S001E	15
001S001E	27
001S001E	35
002S001E	02
002S001E	11

45122-E7	Linnton
45122-F6	Vancouver
45122-F7	Sauvie Island
45122-G7	Saint Helens
45122-G8	Chapman

002S001E	14
002S001E	24
002S002E	30
002S002E	19
002S001E	13
004N001W	10
002S001E	10
001S001E	36
001S001E	26
001S001E	22
001S001E	10
001S001E	03
001N001E	27
001N001E	21
001N001E	19
001N001E	18
004N001W	08
001N001W	11
001N001E	05
002N001E	32
002N001W	36
002N001W	34
002N001E	30

Source Feature | Uncertainty Type (Distance) [Use Class] | Annual Observations

Data currently not available.

SFeat ID | Date | Visit data

Occurence Data

EO Type: REARING & MIGRATION - fish Min. Elev.(m):

EO Data: 2009: Classified as rearing by ODFW. Undocumented fish observation.
WINTER RUN: ODFW DISTRIBUTIION MAPS USED TO CREATE THE 1:24,000 COVERAGE

EO Comments:

Protection:

Management:

Specimens:

General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF STEELHEAD IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT.

Scientific Name: ***Oncorhynchus tshawytscha pop. 21***

Common Name: **Chinook salmon (Lower Columbia River ESU, spring run)**

EO NUM: 6

EO ID: 3132

Federal Status: LT GRANK: G5T2Q NHP List: 1

State Status: SC SRANK: S2 HP Track: Y

Category: Vertebrate Animal

ELCODE: AFCHA0205W

Confirmed: First Obs: 1999-PRE Last Obs: 2009 EO Rank: E - Verified extant (viability not assessed)

Directions: SCAPPOOSE BAY, MULTNOMAH CHANNEL, WILLAMETTE RIVER

County Name: Clackamas, Columbia, Multnomah

Ecoregion: WV

Owner Name/Type

Watershed:
- 170900070405 - Tanner Creek-Willamette River
- 170900120104 - Oswego Creek-Willamette River
- 170900120202 - Balch Creek-Willamette River
- 170900120303 - Milton Creek
- 170900120304 - Scappoose Creek
- 170900120305 - Multnomah Channel

Town-Range	Sec	Note
001N001E	18	
001N001E	19	
001N001E	20	
001N001E	21	

QuadCode	QuadName
45122-C5	Oregon City
45122-D5	Gladstone
45122-D6	Lake Oswego
45122-E6	Portland

Managed Area Name

001N001E	27
001N001E	28
001N001E	34
001N001W	02
001N001W	11
001N001W	12
001N001W	13
001S001E	03
001S001E	10
001S001E	15
001S001E	22
001S001E	26
001S001E	27
001S001E	35
002N001W	06
002N001W	07
002N001W	14
002N001W	17
002N001W	18
002N001W	20
002N001W	21
002N001W	22
002N001W	23
002N001W	27
002N001W	28
002N001W	34
002N001W	35
002N002W	01
002N002W	12
002S001E	02
002S001E	11
002S001E	13
002S001E	14
002S001E	24
002S002E	19
002S002E	30
003N001W	04
003N001W	09
003N001W	16
003N001W	17
003N001W	19
003N001W	20
003N001W	30
003N001W	31
003N002W	25
003N002W	36
004N001W	09
004N001W	10
004N001W	16
004N001W	17
004N001W	20
004N001W	21
004N001W	27
004N001W	28
004N001W	33
004N001W	34

45122-E7	Linnton
45122-F7	Sauvie Island
45122-G7	Saint Helens

Source Feature Uncertainty Type (Distance) [Use Class] Annual Observations

Data currently not available.

SFeat ID Date Visit data

Occurence Data

EO Type: REARING & MIGRATION - fish Min. Elev.(m):

EO Data: SPRING RUN; ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE
EO Comments:
Protection:
Management:
Specimens:
General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF CHINOOK IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT.

Scientific Name: ***Oncorhynchus tshawytscha pop. 22***
Common Name: **Chinook salmon (Lower Columbia River ESU, fall run)**
EO NUM: 6
EO ID: 778
Federal Status: LT GRANK: G5T2Q NHP List: 1
State Status: SC SRANK: S2 HP Track: Y
Category: Vertebrate Animal
ELCODE: AFCHA0205Y
Confirmed: First Obs: 1999-PRE Last Obs: 2009 EO Rank: E - Verified extant (viability not assessed)
Directions: SCAPPOOSE BAY & TRIBUTARIES, WILLAMETTE RIVER & TRIBUTARIES

County Name	Ecoregion	Owner Name/Type
Clackamas	WV	
Columbia		
Multnomah		

Watershed
170900070405 - Tanner Creek-Willamette River
170900120102 - Kellogg Creek
170900120103 - Lower Johnson Creek
170900120104 - Oswego Creek-Willamette River
170900120201 - Columbia Slough
170900120202 - Balch Creek-Willamette River
170900120301 - South Scappoose Creek
170900120303 - Milton Creek
170900120304 - Scappoose Creek
170900120305 - Multnomah Channel

Town-Range	Sec	Note
002S002E	30	
004N001W	15	
002S001E	13	
002S001E	11	
001S001E	36	
001S001E	26	
001S001E	22	
001S001E	15	
001S001E	03	
001N001E	27	
001N001E	21	
001N001E	19	
004N001W	17	
001N001W	12	
001N001E	06	
001N001W	02	
002N001W	36	
002N001W	34	
002N001W	25	
002N001W	28	
002N001W	23	
002N001W	21	
002N001W	14	
004N001W	09	
002N001W	07	
002N001W	03	
002N001W	06	
003N001W	35	
003N001W	33	
003N001W	31	
003N001W	27	
003N001W	29	

QuadCode	QuadName
45122-C5	Oregon City
45122-D5	Gladstone
45122-D6	Lake Oswego
45122-E6	Portland
45122-E7	Linnton
45122-F7	Sauvie Island
45122-G7	Saint Helens

Managed Area Name

003N002W	25
003N001W	22
003N001W	19
003N001W	16
003N001W	10
003N001W	03
003N002W	01
004N001W	34
004N001W	31
004N001W	27
004N001W	29
004N001W	21
004N001W	20
004N001W	30
004N001W	28
004N002W	36
004N001W	33
003N001W	04
003N001W	09
003N001W	17
003N001W	15
003N001W	20
003N001W	21
003N001W	23
003N001W	30
003N001W	28
003N002W	36
003N001W	34
002N002W	01
002N001W	04
002N002W	12
002N001W	18
002N001W	17
002N001W	20
002N001W	22
002N001W	24
002N001W	27
004N001W	10
002N001W	35
002N001E	31
001N001E	05
001N001W	11
001N001W	13
001N001E	18
001N001E	20
001N001E	28
001N001E	34
001S001E	10
004N001W	16
001S001E	27
001S001E	35
002S001E	02
002S001E	14
002S001E	24
002S002E	19
002S002E	31

Source Feature Uncertainty Type (Distance) [Use Class] Annual Observations

Data currently not available.

SFeat ID Date Visit data

Occurence Data

EO Type: REARING & MIGRATION - fish Min. Elev.(m):

EO Data: 2009: Classified as rearing by ODFW. Undocumented fish observation. FALL RUN; ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE

EO Comments:

Protection:

Management:

Specimens:

General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF CHINOOK IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT. Updated with 2009 ODFW 1:24,000 coverage.

Scientific Name: ***Oncorhynchus tshawytscha pop. 23***

Common Name: **Chinook salmon (Upper Willamette River ESU, spring run)**

EO NUM: 91

EO ID: 31243

Federal Status: LT GRANK: G5T2Q NHP List: 1

State Status: SC SRANK: S2 HP Track: Y

Category: Vertebrate Animal

ELCODE: AFCHA02052

Confirmed: First Obs: 2009-pre Last Obs: 2009 EO Rank: E - Verified extant (viability not assessed)

Directions: From the mouth of the Willamette River to confluence with the Clackamas River.

County Name	Ecoregion	Owner Name/Type
Clackamas	WV	
Multnomah		

Watershed

170800030200 - Hayden Island-Columbia River
170900070405 - Tanner Creek-Willamette River
170900120104 - Oswego Creek-Willamette River
170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note
002N001W	22	
001N001E	28	
002N001W	13	
002N001W	14	
001N001E	19	
001N001E	18	
001N001W	13	
002S002E	30	
001N001W	12	
001N001E	20	
001N001E	21	
001N001W	11	
001N001E	27	
001N001E	34	
001S001E	03	
002S001E	13	
002S001E	14	
001N001W	02	
002S001E	02	
002N001W	35	
001S001E	35	
001S001E	26	
002S001E	11	
002N001W	34	
001S001E	27	
002S001E	24	
002S002E	19	
001S001E	22	
002N001W	27	
001S001E	15	
001S001E	10	
002N001W	23	

QuadCode	QuadName
45122-C5	Oregon City
45122-D5	Gladstone
45122-D6	Lake Oswego
45122-E6	Portland
45122-E7	Linnton
45122-F7	Sauvie Island

Managed Area Name

Source Feature Uncertainty Type (Distance) [Use Class] Annual Observations

Data currently not available.

SFeat ID | Date | Visit data

Occurence Data

EO Type:
EO Data: 2009: Classified as rearing by ODFW. Min. Elev.(m):
EO Comments:
Protection:
Management:
Specimens:
General: Distribution information used in this EOR was derived from ODFW 1:24,000 scale geographic resources data produced and distributed in 2009. Use type was determined by ODFW and other natural resources agency field staff based on survey data, supporting documentation, and the best professional judgement of the field biologists. Unless otherwise noted, the presence of chinook in described areas should be considered undocumented but as having a potential of being present.

Scientific Name: ***Pristiloma johnsoni*** EO NUM: 2
Common Name: **Broadwhorl tightcoil (snail)** EO ID: 29863
Federal Status: GRANK: G3 NHP List: 3 Category: Invertebrate Animal
State Status: SRANK: S3 HP Track: Y ELCODE: IMGAS80050
Confirmed: First Obs: 2005-06 Last Obs: 2005-06 EO Rank: E - Verified extant (viability not assessed)
Directions: Upper Macleay Park, in Forest Park off Cornell Road.

County Name	Ecoregion	Owner Name/Type	Watershed
Multnomah	CR	Portland Parks and Recre	170900120202 - Balch Creek-Willamette River

Town-Range	Sec	Note	QuadCode	QuadName	Managed Area Name
001N001E	32		45122-E6	Portland	
001N001E	31				

Source Feature	Uncertainty Type (Distance) [Use Class]		Annual Observations
50346 - Polygon	Delimited (8 m)	Not applicable	• 2005 - 8

SFeat ID | Date | Visit data
50346 | 2005-06 | Hodges reported finding eight snails at eight sites in Upper Macleay Park. Hodges (2007) article on distribution of mollusks in Forest Park, Portland, Oregon. Field work completed in June 2005.

Occurence Data

EO Type:
EO Data: Hodges reported finding eight snails at eight sites in Upper Macleay Park. Min. Elev.(m): 152
EO Comments:
Protection:
Management:
Specimens:
General: Hodges (2007) article on distribution of mollusks in Forest Park, Portland, Oregon. Field work completed in June 2005.

17 records total

Key to Oregon Biodiversity Information Center Data

Field Name	Description
Scientific Name	The scientific name of the species.
Common Name	The common name of the species.
Category	Value that indicates the broad biological category for each species.
ELCODE	Unique NatureServe code for identifying this element. 1st and 2nd byte (PD=Plant dict, PM=Plant monocot, PG=Plant gymnosperm, PP=Plant pteridophyte, AA=amphibian, AB=bird, AF=fish, AM=mammal, AR=reptile, I=invertebrate. 3rd-5th byte (family abbreviation). 6th-7th (genus code). 8th-9th (species). 10th (tie breaker).
Federal Status	US Fish and Wildlife Service or NOAA Fisheries status. **LE**=listed endangered, **LT**=listed threatened, **PE** or **PT**=proposed endangered or threatened, **C**=candidate for listing with enough information available for listing, **SOC** or **SC**=species of concern, **PS:***xx*=partial status for species.
State Status	For animals, Oregon Department of Fish and Wildlife status; **LE**=listed endangered, **PE**=proposed endangered, **PT**=proposed threatened, **SC** or **C**=sensitive-critical, **SV** or **V**=sensitive-vulnerable, **SP** or **P**=sensitive-peripheral, **SU** or **U**=sensitive-undetermined status. For plants, Oregon Department of Agriculture status; **LE**=listed endangered, **LT**=listed threatened, **C**=candidate.
GRANK/SRANK	ORNHIC participates in an international system for ranking rare, threatened and endangered species throughout the world. The system was developed by The Nature Conservancy and is now maintained by NatureServe in cooperation with Heritage Programs or Conservation Data Centers (CDCs) in all 50 states, in 4 Canadian provinces, and in 13 Latin American countries. The ranking is a 1-5 scale, primarily based on the number of known occurrences, but also including threats, sensitivity, area occupied, and other biological factors. In this book, the ranks occupy two lines. The top line is the Global Rank and begins with a "G". If the taxon has a trinomial (a subspecies, variety or recognized race), this is followed by a "T" rank indicator. A "Q" at the end of this line indicates the taxon has taxonomic questions. The second line is the State Rank and begins with the letter "S". The ranks are summarized as follows: **1** = Critically imperiled because of extreme rarity or because it is somehow especially vulnerable to extinction or extirpation, typically with 5 or fewer occurrences; **2** = Imperiled because of rarity or because other factors demonstrably make it very vulnerable to extinction (extirpation), typically with 6-20 occurrences; **3** = Rare, uncommon or threatened, but not immediately imperiled, typically with 21-100 occurrences; **4** = Not rare and apparently secure, but with cause for long-term concern, usually with more than 100 occurrences; **5** = Demonstrably widespread, abundant, and secure; **H** = Historical Occurrence, formerly part of the native biota with the implied expectation that it may be rediscovered; **X** = Presumed extirpated or extinct; **U** = Unknown rank; **?** = Not yet ranked, or assigned rank is uncertain.
NHP list	All rare species in Oregon are assigned a list number of 1, 2, 3 or 4, where **1**=threatened or endangered throughout range, **2**=threatened or endangered in Oregon but more common elsewhere, **3**=Review List (more information is needed), **4**=Watch List (currently stable). A null value indicates the species is not currently on our rare species list.
HP Track	We currently obtain and computerize locational information for only those elements marked with **Y**(es). Those species marked with **N**(o) or **W**(atch) have incomplete data as we do not actively track them at this time.
EO NUM	The number of the Element Occurrence (EO) for this species. An element occurrence is an area of land or water where the species is or was known to occur and has conservation value. EOs are the main tracking unit for Heritage Programs.
EO ID	Unique identifier for the Element Occurrence (EO). Unique for each occurrence in the database.
First_obs	First reported sighting date for this occurrence in the form YYYY-MM-DD.
Last_obs	Last reported sighting date, usually in the form YYYY-MM-DD.

Key to Oregon Biodiversity Information Center Data

Field Name	Description
Confirmed	Indication of whether taxonomic identification of the Element represented by this occurrence has been confirmed by a reliable individual. Blank=unknown, assumed to be correctly identified. Y=Yes, confident identification. ?=identification questions.
EO Rank	ORNHIC's determination of the viability of the occurrence.
Directions	Site name and/or directions to site.
County	County name(s) in which EO is mapped.
Ecoregion	Physiographic Province in which EO is mapped: **CR**=Coast Range, **WV**=Willamette Valley, **KM**=Klamath Mountains, **WC**=West slope and crest of the Cascades, **EC**=East slope of the Cascades, **BM**=Ochoco, Blue and Wallowa Mts., **BR**=Basin and Range, **CB**=Columbia Basin, **SP**=Snake River Plains. **ME**=Marine and Estuarine.
Town-Range, Sec, and Note	United States rectangular land survey (also known as the Public Land Survey System) legal township, range, and section descriptions in which the EO is mapped. Township first (4 bytes), range second (4 bytes). For example: 004S029E = Township 4S, Range 29E. All locations are with reference to the Willamette Meridian. Fractional ranges or townships are indicated in the Note field.
Quadcode	USGS code for the USGS topographic quadrangle map(s) where the record is mapped.
Quadname	Name of the USGS topographic quadrangle map(s) where the record is mapped.
Watershed	Watershed(s), identified according to the U.S. Geological Survey (USGS) Hydrologic Unit Map 10-digit code, within which the Element Occurrence is located.
Owner Name/Type	Federal, State, Private, etc.
Managed Area Name	BLM District, USFS Forest, Private Preserve
Annual Observation	Summary of yearly observation.
Source Feature	A Source Feature is the initial translation of a discrete unit of observation data as a spatial feature. Creation of a Source Feature requires an interpretive process. The likely location and extent of an observation is determined through consideration of the amount and direction of any variability between the recorded and actual locations of the observation data. In most cases, the Source Feature is delineated to encompass locational uncertainty. A Source Feature can be a point, line, or polygon. The type of Source Feature developed depends on both the preceding conceptual feature type and the locational uncertainty associated with the feature.
Feature ID	Unique identifier for source feature.
Obs Date	Date of source feature observation.
Source Observation Data	Observations specific to the source feature.

Key to Oregon Biodiversity Information Center Data

Field Name	Description
Uncertainty Type (Distance)	The recorded location of an observation of an Element may vary from its true location due to many factors, including the level of expertise of the data collector, differences in survey techniques and equipment used, and the amount and type of information obtained. This inaccuracy is characterized as locational uncertainty, and is assessed for Source Feature(s) based on the uncertainty associated with the underlying information on the location of the observation. Four categories of locational uncertainty have been identified, as follows: Negligible uncertainty is less than or equal to 6.25 meters in any dimension. Source Features with negligible uncertainty are based on a comprehensive field survey with high quality mapping and a high degree of certainty. Linear uncertainty is greater than 6.25 meters, and varies along an axis (e.g., a path, stream, ridgeline). The true location of an observation with linear uncertainty may be visualized as effectively sliding along a line that delineates the uncertainty. Areal delimited uncertainty is greater than 6.25 meters, and varies in more than one dimension. The true location of an observation can be visualized as floating within an area with a boundary that can be specifically delimited. Boundaries can be defined using roads, bodies of water, etc. Areal estimated uncertainty is greater than 6.25 meters, and varies in more than one dimension. A boundary cannot be specifically delimited based on the observation information, i.e., the actual extent is unknown. The true location of the observation can be visualized as floating within an area for which boundaries cannot be specifically delimited. Source Features with areal estimated uncertainty require that the user specify an estimated uncertainty distance to be used for buffering the feature to incorporate the locational uncertainty.
Use Class	How the source feature is used by migratory species (e.g. breeding, maternity colony, hibernaculum).
EO Type	For animals, type of occurrence, e.g. roost, nest, spawning.
EO Data	Summary of species and population biology for the EO – may include number observed, number of sites, reproduction data, assessment of viability, etc.
EO Comments	Habitat information, e.g. aspect, slope, soils, associated species, community type.
Minimum Elevation	Minimum elevation of the area covered by the range of the taxon, in meters. Negative numbers or blank=not determined.
Protection	Comments on protectibility and threats.
Management	Comments on how the site is managed.
Specimens	Details on specimens that have been collected at this occurrence site. Order of information is: Collector (Collector's number). Year collected. Acquisition number. Collection code.
General	Miscellaneous comments.

Apex Labs

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503-718-2323 Phone
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Sunday, November 20, 2016

Richard Kent
GeoPro LLC
PO Box 26
Battle Ground, WA 98604

RE: States Battery -- Osrean 2016 / 161013

Enclosed are the results of analyses for work order A6J0586, which was received by the laboratory on 10/13/2016 at 4:49:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

Darwin Thomas, Business Development Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB-1-102016	A6J0586-01	Sediment	10/13/16 13:25	10/13/16 16:49
CB-2-102016	A6J0586-02	Sediment	10/13/16 11:25	10/13/16 16:49
CB-3-102016	A6J0586-03	Sediment	10/13/16 14:00	10/13/16 16:49

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01RE1)			**Matrix: Sediment**		**Batch: 6100746**			
Diesel	ND	273	547	mg/kg dry	20	10/20/16 11:35	NWTPH-Dx	
Oil	**2220**	547	1090	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: %*	*Limits: 50-150 %*	"	"	"	*S-01*
CB-2-102016 (A6J0586-02)			**Matrix: Sediment**		**Batch: 6100746**			
Diesel	ND	1260	2530	mg/kg dry	50	10/19/16 19:56	NWTPH-Dx	
Oil	**11700**	2530	5050	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: %*	*Limits: 50-150 %*	"	"	"	*S-01*
CB-3-102016 (A6J0586-03RE1)			**Matrix: Sediment**		**Batch: 6100746**			
Diesel	ND	71.4	143	mg/kg dry	5	10/20/16 11:58	NWTPH-Dx	
Oil	**833**	143	286	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 89 %*	*Limits: 50-150 %*	"	"	"	*S-05*

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01)			**Matrix: Sediment**		**Batch: 6100735**			
Gasoline Range Organics	**17.7**	4.45	8.91	mg/kg dry	50	10/19/16 12:42	NWTPH-Gx (MS)	F-13
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 105 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*98 %*	*Limits: 50-150 %*	"	"	"	
CB-2-102016 (A6J0586-02)			**Matrix: Sediment**		**Batch: 6100735**			
Gasoline Range Organics	**16.0**	11.8	23.5	mg/kg dry	50	10/19/16 13:39	NWTPH-Gx (MS)	J, F-13
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 102 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*97 %*	*Limits: 50-150 %*	"	"	"	
CB-3-102016 (A6J0586-03)			**Matrix: Sediment**		**Batch: 6100735**			
Gasoline Range Organics	ND	3.99	7.97	mg/kg dry	50	10/19/16 14:06	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 100 %*	*Limits: 50-150 %*	1	"	"	
1,4-Difluorobenzene (Sur)			*98 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

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Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01)			**Matrix: Sediment**		**Batch: 6100735**			
Acetone	ND	0.891	1.78	mg/kg dry	50	10/19/16 12:42	5035/8260B	
Acrylonitrile	ND	0.0891	0.178	"	"	"	"	
Benzene	ND	0.00891	0.0178	"	"	"	"	
Bromobenzene	ND	0.0223	0.0445	"	"	"	"	
Bromochloromethane	ND	0.0445	0.0891	"	"	"	"	
Bromodichloromethane	ND	0.0891	0.178	"	"	"	"	
Bromoform	ND	0.0891	0.178	"	"	"	"	
Bromomethane	ND	0.891	0.891	"	"	"	"	
2-Butanone (MEK)	ND	0.445	0.891	"	"	"	"	
n-Butylbenzene	ND	0.0445	0.0891	"	"	"	"	
sec-Butylbenzene	ND	0.0445	0.0891	"	"	"	"	
tert-Butylbenzene	ND	0.0445	0.0891	"	"	"	"	
Carbon disulfide	ND	0.445	0.891	"	"	"	"	
Carbon tetrachloride	ND	0.0445	0.0891	"	"	"	"	
Chlorobenzene	ND	0.0223	0.0445	"	"	"	"	
Chloroethane	ND	0.445	0.891	"	"	"	"	Q-31
Chloroform	ND	0.0445	0.0891	"	"	"	"	
Chloromethane	ND	0.223	0.445	"	"	"	"	
2-Chlorotoluene	ND	0.0445	0.0891	"	"	"	"	
4-Chlorotoluene	ND	0.0445	0.0891	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.223	0.445	"	"	"	"	
Dibromochloromethane	ND	0.0891	0.178	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0445	0.0891	"	"	"	"	
Dibromomethane	ND	0.0445	0.0891	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0223	0.0445	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0223	0.0445	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0223	0.0445	"	"	"	"	
Dichlorodifluoromethane	ND	0.0891	0.178	"	"	"	"	
1,1-Dichloroethane	ND	0.0223	0.0445	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0223	0.0445	"	"	"	"	
1,1-Dichloroethene	ND	0.0223	0.0445	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0223	0.0445	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0223	0.0445	"	"	"	"	
1,2-Dichloropropane	ND	0.0223	0.0445	"	"	"	"	
1,3-Dichloropropane	ND	0.0445	0.0891	"	"	"	"	

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Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01)			**Matrix: Sediment**		**Batch: 6100735**			
2,2-Dichloropropane	ND	0.0445	0.0891	mg/kg dry	50	"	5035/8260B	
1,1-Dichloropropene	ND	0.0445	0.0891	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0445	0.0891	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0445	0.0891	"	"	"	"	
Ethylbenzene	ND	0.0223	0.0445	"	"	"	"	
Hexachlorobutadiene	ND	0.0891	0.178	"	"	"	"	
n-Hexane	ND	0.0891	0.178	"	"	"	"	
2-Hexanone	ND	0.445	0.891	"	"	"	"	
Isopropylbenzene	ND	0.0445	0.0891	"	"	"	"	
4-Isopropyltoluene	**0.0481**	0.0445	0.0891	"	"	"	"	J
4-Methyl-2-pentanone (MiBK)	ND	0.445	0.891	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.0445	0.0891	"	"	"	"	
Methylene chloride	ND	0.223	0.445	"	"	"	"	
Naphthalene	ND	0.0891	0.178	"	"	"	"	
n-Propylbenzene	ND	0.0223	0.0445	"	"	"	"	
Styrene	ND	0.0445	0.0891	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0223	0.0445	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0445	0.0891	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0223	0.0445	"	"	"	"	
Toluene	**3.09**	0.0445	0.0891	"	"	"	"	Q-42
1,2,3-Trichlorobenzene	ND	0.223	0.445	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.223	0.445	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0223	0.0445	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0223	0.0445	"	"	"	"	
Trichloroethene (TCE)	ND	0.0223	0.0445	"	"	"	"	
Trichlorofluoromethane	ND	0.0891	0.178	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ND	0.0891	0.178	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0445	0.0891	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0445	0.0891	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0445	0.0891	"	"	"	"	
Vinyl chloride	ND	0.0223	0.0445	"	"	"	"	
m,p-Xylene	ND	0.0445	0.0891	"	"	"	"	
o-Xylene	ND	0.0223	0.0445	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 107 %*	*Limits: 70-130 %*	1	"	"	
Toluene-d8 (Surr)			*96 %*	*Limits: 70-130 %*	"	"	"	

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Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01)			**Matrix: Sediment**		**Batch: 6100735**			
Surrogate: 4-Bromofluorobenzene (Surr)			*Recovery: 101 %*	*Limits: 70-130 %*	1	"	5035/8260B	
CB-2-102016 (A6J0586-02)			**Matrix: Sediment**		**Batch: 6100735**			
Acetone	ND	2.35	4.70	mg/kg dry	50	10/19/16 13:39	5035/8260B	
Acrylonitrile	ND	0.235	0.470	"	"	"	"	
Benzene	ND	0.0235	0.0470	"	"	"	"	
Bromobenzene	ND	0.0588	0.118	"	"	"	"	
Bromochloromethane	ND	0.118	0.235	"	"	"	"	
Bromodichloromethane	ND	0.235	0.470	"	"	"	"	
Bromoform	ND	0.235	0.470	"	"	"	"	
Bromomethane	ND	2.35	2.35	"	"	"	"	
2-Butanone (MEK)	ND	1.18	2.35	"	"	"	"	
n-Butylbenzene	ND	0.118	0.235	"	"	"	"	
sec-Butylbenzene	ND	0.118	0.235	"	"	"	"	
tert-Butylbenzene	ND	0.118	0.235	"	"	"	"	
Carbon disulfide	ND	1.18	2.35	"	"	"	"	
Carbon tetrachloride	ND	0.118	0.235	"	"	"	"	
Chlorobenzene	ND	0.0588	0.118	"	"	"	"	
Chloroethane	ND	1.18	2.35	"	"	"	"	Q-31
Chloroform	ND	0.118	0.235	"	"	"	"	
Chloromethane	ND	0.588	1.18	"	"	"	"	
2-Chlorotoluene	ND	0.118	0.235	"	"	"	"	
4-Chlorotoluene	ND	0.118	0.235	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.588	1.18	"	"	"	"	
Dibromochloromethane	ND	0.235	0.470	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.118	0.235	"	"	"	"	
Dibromomethane	ND	0.118	0.235	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0588	0.118	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0588	0.118	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0588	0.118	"	"	"	"	
Dichlorodifluoromethane	ND	0.235	0.470	"	"	"	"	
1,1-Dichloroethane	ND	0.0588	0.118	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0588	0.118	"	"	"	"	
1,1-Dichloroethene	ND	0.0588	0.118	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0588	0.118	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0588	0.118	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-2-102016 (A6J0586-02)			**Matrix: Sediment**		**Batch: 6100735**			
1,2-Dichloropropane	ND	0.0588	0.118	mg/kg dry	50	"	5035/8260B	
1,3-Dichloropropane	ND	0.118	0.235	"	"	"	"	
2,2-Dichloropropane	ND	0.118	0.235	"	"	"	"	
1,1-Dichloropropene	ND	0.118	0.235	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.118	0.235	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.118	0.235	"	"	"	"	
Ethylbenzene	ND	0.0588	0.118	"	"	"	"	
Hexachlorobutadiene	ND	0.235	0.470	"	"	"	"	
n-Hexane	ND	0.235	0.470	"	"	"	"	
2-Hexanone	ND	1.18	2.35	"	"	"	"	
Isopropylbenzene	ND	0.118	0.235	"	"	"	"	
4-Isopropyltoluene	ND	0.118	0.235	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	1.18	2.35	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.118	0.235	"	"	"	"	
Methylene chloride	ND	0.588	1.18	"	"	"	"	
Naphthalene	ND	0.235	0.470	"	"	"	"	
n-Propylbenzene	ND	0.0588	0.118	"	"	"	"	
Styrene	ND	0.118	0.235	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0588	0.118	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.118	0.235	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0588	0.118	"	"	"	"	
Toluene	**0.652**	0.118	0.235	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.588	1.18	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.588	1.18	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0588	0.118	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0588	0.118	"	"	"	"	
Trichloroethene (TCE)	ND	0.0588	0.118	"	"	"	"	
Trichlorofluoromethane	ND	0.235	0.470	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ND	0.235	0.470	"	"	"	"	
1,2,3-Trichloropropane	ND	0.118	0.235	"	"	"	"	
1,2,4-Trimethylbenzene	**0.247**	0.118	0.235	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.118	0.235	"	"	"	"	
Vinyl chloride	ND	0.0588	0.118	"	"	"	"	
m,p-Xylene	ND	0.118	0.235	"	"	"	"	
o-Xylene	ND	0.0588	0.118	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-2-102016 (A6J0586-02)			**Matrix: Sediment**		**Batch: 6100735**			
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 106 %*	*Limits: 70-130 %*	1	"	5035/8260B	
Toluene-d8 (Surr)			*99 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*95 %*	*Limits: 70-130 %*	"	"	"	
CB-3-102016 (A6J0586-03)			**Matrix: Sediment**		**Batch: 6100735**			
Acetone	ND	0.797	1.59	mg/kg dry	50	10/19/16 14:06	5035/8260B	
Acrylonitrile	ND	0.0797	0.159	"	"	"	"	
Benzene	ND	0.00797	0.0159	"	"	"	"	
Bromobenzene	ND	0.0199	0.0399	"	"	"	"	
Bromochloromethane	ND	0.0399	0.0797	"	"	"	"	
Bromodichloromethane	ND	0.0797	0.159	"	"	"	"	
Bromoform	ND	0.0797	0.159	"	"	"	"	
Bromomethane	ND	0.797	0.797	"	"	"	"	
2-Butanone (MEK)	ND	0.399	0.797	"	"	"	"	
n-Butylbenzene	ND	0.0399	0.0797	"	"	"	"	
sec-Butylbenzene	ND	0.0399	0.0797	"	"	"	"	
tert-Butylbenzene	ND	0.0399	0.0797	"	"	"	"	
Carbon disulfide	ND	0.399	0.797	"	"	"	"	
Carbon tetrachloride	ND	0.0399	0.0797	"	"	"	"	
Chlorobenzene	ND	0.0199	0.0399	"	"	"	"	
Chloroethane	ND	0.399	0.797	"	"	"	"	Q-31
Chloroform	ND	0.0399	0.0797	"	"	"	"	
Chloromethane	ND	0.199	0.399	"	"	"	"	
2-Chlorotoluene	ND	0.0399	0.0797	"	"	"	"	
4-Chlorotoluene	ND	0.0399	0.0797	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.199	0.399	"	"	"	"	
Dibromochloromethane	ND	0.0797	0.159	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0399	0.0797	"	"	"	"	
Dibromomethane	ND	0.0399	0.0797	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0199	0.0399	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0199	0.0399	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0199	0.0399	"	"	"	"	
Dichlorodifluoromethane	ND	0.0797	0.159	"	"	"	"	
1,1-Dichloroethane	ND	0.0199	0.0399	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0199	0.0399	"	"	"	"	
1,1-Dichloroethene	ND	0.0199	0.0399	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-3-102016 (A6J0586-03)			**Matrix: Sediment**		**Batch: 6100735**			
cis-1,2-Dichloroethene	ND	0.0199	0.0399	mg/kg dry	50	"	5035/8260B	
trans-1,2-Dichloroethene	ND	0.0199	0.0399	"	"	"	"	
1,2-Dichloropropane	ND	0.0199	0.0399	"	"	"	"	
1,3-Dichloropropane	ND	0.0399	0.0797	"	"	"	"	
2,2-Dichloropropane	ND	0.0399	0.0797	"	"	"	"	
1,1-Dichloropropene	ND	0.0399	0.0797	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0399	0.0797	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0399	0.0797	"	"	"	"	
Ethylbenzene	ND	0.0199	0.0399	"	"	"	"	
Hexachlorobutadiene	ND	0.0797	0.159	"	"	"	"	
n-Hexane	ND	0.0797	0.159	"	"	"	"	
2-Hexanone	ND	0.399	0.797	"	"	"	"	
Isopropylbenzene	ND	0.0399	0.0797	"	"	"	"	
4-Isopropyltoluene	ND	0.0399	0.0797	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	0.399	0.797	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.0399	0.0797	"	"	"	"	
Methylene chloride	ND	0.199	0.399	"	"	"	"	
Naphthalene	ND	0.0797	0.159	"	"	"	"	
n-Propylbenzene	ND	0.0199	0.0399	"	"	"	"	
Styrene	ND	0.0399	0.0797	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0199	0.0399	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0399	0.0797	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0199	0.0399	"	"	"	"	
Toluene	ND	0.0399	0.0797	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.199	0.399	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.199	0.399	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0199	0.0399	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0199	0.0399	"	"	"	"	
Trichloroethene (TCE)	ND	0.0199	0.0399	"	"	"	"	
Trichlorofluoromethane	ND	0.0797	0.159	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ND	0.0797	0.159	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0399	0.0797	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0399	0.0797	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0399	0.0797	"	"	"	"	
Vinyl chloride	ND	0.0199	0.0399	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-3-102016 (A6J0586-03)			**Matrix: Sediment**		**Batch: 6100735**			
m,p-Xylene	ND	0.0399	0.0797	mg/kg dry	50	"	5035/8260B	
o-Xylene	ND	0.0199	0.0399	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 108 %*	*Limits: 70-130 %*	1	"	"	
Toluene-d8 (Surr)			*98 %*	*Limits: 70-130 %*	"	"	"	
4-Bromofluorobenzene (Surr)			*97 %*	*Limits: 70-130 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01)			**Matrix: Sediment**		**Batch: 6100951**			**C-07**
Aroclor 1016	ND	0.00620	0.0124	mg/kg dry	1	10/26/16 12:00	EPA 8082A	
Aroclor 1221	ND	0.00620	0.0124	"	"	"	"	
Aroclor 1232	ND	0.0211	0.0211	"	"	"	"	R-02
Aroclor 1242	ND	0.00620	0.0124	"	"	"	"	
Aroclor 1248	ND	0.00620	0.0124	"	"	"	"	
Aroclor 1254	**0.0358**	0.00620	0.0124	"	"	"	"	
Aroclor 1260	ND	0.0136	0.0136	"	"	"	"	R-02
Aroclor 1262	ND	0.0124	0.0124	"	"	"	"	
Aroclor 1268	ND	0.00620	0.0124	"	"	"	"	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 85 %*	*Limits: 72-126 %*	"	"	"	
CB-2-102016 (A6J0586-02RE1)			**Matrix: Sediment**		**Batch: 6100951**			**C-07**
Aroclor 1016	ND	0.0119	0.0237	mg/kg dry	1	10/27/16 08:34	EPA 8082A	
Aroclor 1221	ND	0.0119	0.0237	"	"	"	"	
Aroclor 1232	ND	0.0119	0.0237	"	"	"	"	
Aroclor 1242	ND	0.0119	0.0237	"	"	"	"	
Aroclor 1248	ND	0.0119	0.0237	"	"	"	"	
Aroclor 1254	ND	0.0119	0.0237	"	"	"	"	
Aroclor 1260	**1.07**	0.0119	0.0237	"	"	"	"	
Aroclor 1262	ND	0.0119	0.0237	"	"	"	"	
Aroclor 1268	ND	0.0119	0.0237	"	"	"	"	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 87 %*	*Limits: 72-126 %*	"	"	"	
CB-3-102016 (A6J0586-03RE1)			**Matrix: Sediment**		**Batch: 6100951**			**C-07**
Aroclor 1016	ND	0.00627	0.0125	mg/kg dry	1	10/27/16 09:09	EPA 8082A	
Aroclor 1221	ND	0.00627	0.0125	"	"	"	"	
Aroclor 1232	ND	0.00627	0.0125	"	"	"	"	
Aroclor 1242	ND	0.00627	0.0125	"	"	"	"	
Aroclor 1248	ND	0.0276	0.0313	"	"	"	"	R-02
Aroclor 1254	ND	0.177	0.177	"	"	"	"	R-02
Aroclor 1260	**0.141**	0.00627	0.0125	"	"	"	"	
Aroclor 1262	ND	0.00627	0.0125	"	"	"	"	
Aroclor 1268	ND	0.00627	0.0125	"	"	"	"	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 81 %*	*Limits: 72-126 %*	"	"	"	

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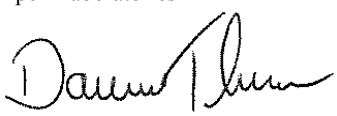

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01RE1)			**Matrix: Sediment**		**Batch: 6100964**			**C-05**
Aldrin	ND	0.00268	0.00536	mg/kg dry	1	10/26/16 18:24	EPA 8081B	
alpha-BHC	ND	0.00268	0.00536	"	"	"	"	
beta-BHC	ND	0.00536	0.00536	"	"	"	"	
delta-BHC	ND	0.00268	0.00536	"	"	"	"	
gamma-BHC (Lindane)	ND	0.00268	0.00536	"	"	"	"	
cis-Chlordane	ND	0.00268	0.00536	"	"	"	"	
trans-Chlordane	ND	0.00268	0.00536	"	"	"	"	
4,4'-DDD	ND	0.00268	0.00536	"	"	"	"	
4,4'-DDE	ND	0.00268	0.00536	"	"	"	"	
4,4'-DDT	ND	0.00563	0.00563	"	"	"	"	R-02
Dieldrin	ND	0.00268	0.00536	"	"	"	"	
Endosulfan I	ND	0.00268	0.00536	"	"	"	"	
Endosulfan II	ND	0.00268	0.00536	"	"	"	"	
Endosulfan sulfate	ND	0.00268	0.00536	"	"	"	"	
Endrin	ND	0.00268	0.00536	"	"	"	"	
Endrin Aldehyde	ND	0.00268	0.00536	"	"	"	"	
Endrin ketone	ND	0.00268	0.00536	"	"	"	"	
Heptachlor	ND	0.00268	0.00536	"	"	"	"	
Heptachlor epoxide	ND	0.00268	0.00536	"	"	"	"	
Methoxychlor	ND	0.00804	0.0161	"	"	"	"	
Chlordane (Technical)	ND	0.0804	0.161	"	"	"	"	
Toxaphene (Total)	ND	0.0804	0.161	"	"	"	"	
cis-Nonachlor	ND	0.00268	0.00536	"	"	"	"	
2,4'-DDD	ND	0.00268	0.00536	"	"	"	"	
2,4'-DDE	ND	0.00268	0.00536	"	"	"	"	
2,4'-DDT	ND	0.00268	0.00536	"	"	"	"	
Hexachlorobenzene	ND	0.00670	0.0134	"	"	"	"	
Hexachlorobutadiene	ND	0.00536	0.00536	"	"	"	"	
Mirex	ND	0.00536	0.00536	"	"	"	"	
Oxychlordane	ND	0.00268	0.00536	"	"	"	"	
trans-Nonachlor	ND	0.00268	0.00536	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 91 %*	*Limits: 42-129 %*	"	"	"	
Decachlorobiphenyl (Surr)			*98 %*	*Limits: 65-151 %*	"	"	"	

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Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-2-102016 (A6J0586-02RE2)			**Matrix: Sediment**		**Batch: 6100964**			**C-05, R-04**
Aldrin	ND	0.0240	0.0480	mg/kg dry	5	10/28/16 11:30	EPA 8081B	
alpha-BHC	ND	0.0240	0.0480	"	"	"	"	
beta-BHC	ND	0.0240	0.0480	"	"	"	"	
delta-BHC	ND	0.0240	0.0480	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0240	0.0480	"	"	"	"	
cis-Chlordane	ND	0.0240	0.0480	"	"	"	"	
trans-Chlordane	ND	0.0624	0.0624	"	"	"	"	R-02
4,4'-DDD	ND	0.0240	0.0480	"	"	"	"	
4,4'-DDE	ND	0.0240	0.0480	"	"	"	"	
4,4'-DDT	ND	0.0889	0.0889	"	"	"	"	R-02
Dieldrin	ND	0.0480	0.0480	"	"	"	"	
Endosulfan I	ND	0.0240	0.0480	"	"	"	"	
Endosulfan II	ND	0.0240	0.0480	"	"	"	"	
Endosulfan sulfate	ND	0.0240	0.0480	"	"	"	"	
Endrin	ND	0.0889	0.0889	"	"	"	"	R-02
Endrin Aldehyde	ND	0.0624	0.0624	"	"	"	"	R-02
Endrin ketone	ND	0.0480	0.0480	"	"	"	"	
Heptachlor	ND	0.0240	0.0480	"	"	"	"	
Heptachlor epoxide	ND	0.0240	0.0480	"	"	"	"	
Methoxychlor	ND	0.0720	0.144	"	"	"	"	
Chlordane (Technical)	ND	0.720	1.44	"	"	"	"	
Toxaphene (Total)	ND	0.720	1.44	"	"	"	"	
cis-Nonachlor	ND	0.0240	0.0480	"	"	"	"	
2,4'-DDD	ND	0.0600	0.0600	"	"	"	"	R-02
2,4'-DDE	ND	0.0240	0.0480	"	"	"	"	
2,4'-DDT	ND	0.0480	0.0480	"	"	"	"	
Hexachlorobenzene	ND	0.0600	0.120	"	"	"	"	
Hexachlorobutadiene	ND	0.0240	0.0480	"	"	"	"	
Mirex	ND	0.183	0.183	"	"	"	"	R-02
Oxychlordane	ND	0.0240	0.0480	"	"	"	"	
trans-Nonachlor	ND	0.0240	0.0480	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 89 %*	*Limits: 42-129 %*	"	"	"	
Decachlorobiphenyl (Surr)			*130 %*	*Limits: 65-151 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-3-102016 (A6J0586-03RE2)			**Matrix: Sediment**		**Batch: 6100964**			**C-05, R-04**
Aldrin	ND	0.0135	0.0270	mg/kg dry	5	10/28/16 11:48	EPA 8081B	
alpha-BHC	ND	0.0135	0.0270	"	"	"	"	
beta-BHC	ND	0.0135	0.0270	"	"	"	"	
delta-BHC	ND	0.0135	0.0270	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0135	0.0270	"	"	"	"	
cis-Chlordane	ND	0.0135	0.0270	"	"	"	"	
trans-Chlordane	ND	0.0270	0.0270	"	"	"	"	
4,4'-DDD	ND	0.0135	0.0270	"	"	"	"	
4,4'-DDE	ND	0.0135	0.0270	"	"	"	"	
4,4'-DDT	ND	0.0744	0.0744	"	"	"	"	R-02
Dieldrin	ND	0.0135	0.0270	"	"	"	"	
Endosulfan I	ND	0.0135	0.0270	"	"	"	"	
Endosulfan II	ND	0.0135	0.0270	"	"	"	"	
Endosulfan sulfate	ND	0.0135	0.0270	"	"	"	"	
Endrin	ND	0.0135	0.0270	"	"	"	"	
Endrin Aldehyde	ND	0.110	0.110	"	"	"	"	R-02
Endrin ketone	ND	0.0135	0.0270	"	"	"	"	
Heptachlor	ND	0.0135	0.0270	"	"	"	"	
Heptachlor epoxide	ND	0.0311	0.0311	"	"	"	"	R-02
Methoxychlor	ND	0.0406	0.0811	"	"	"	"	
Chlordane (Technical)	ND	0.406	0.811	"	"	"	"	
Toxaphene (Total)	ND	0.406	0.811	"	"	"	"	
cis-Nonachlor	ND	0.0135	0.0270	"	"	"	"	
2,4'-DDD	ND	0.0446	0.0446	"	"	"	"	R-02
2,4'-DDE	ND	0.0135	0.0270	"	"	"	"	
2,4'-DDT	ND	0.0135	0.0270	"	"	"	"	
Hexachlorobenzene	ND	0.0338	0.0676	"	"	"	"	
Hexachlorobutadiene	ND	0.0135	0.0270	"	"	"	"	
Mirex	ND	0.0298	0.0298	"	"	"	"	R-02
Oxychlordane	ND	0.0135	0.0270	"	"	"	"	
trans-Nonachlor	ND	0.0270	0.0270	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 71 %*	*Limits: 42-129 %*	"	"	"	
Decachlorobiphenyl (Surr)			*102 %*	*Limits: 65-151 %*	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01)			**Matrix: Sediment**		**Batch: 6100876**			
Acenaphthene	ND	0.0735	0.148	mg/kg dry	40	10/24/16 16:00	EPA 8270D	
Acenaphthylene	ND	0.0735	0.148	"	"	"	"	
Anthracene	ND	0.0735	0.148	"	"	"	"	
Benz(a)anthracene	**0.0764**	0.0735	0.148	"	"	"	"	J
Benzo(a)pyrene	ND	0.111	0.221	"	"	"	"	
Benzo(b)fluoranthene	ND	0.111	0.221	"	"	"	"	
Benzo(k)fluoranthene	ND	0.111	0.221	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.0735	0.148	"	"	"	"	
Chrysene	**0.141**	0.0735	0.148	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.0735	0.148	"	"	"	"	
Fluoranthene	**0.160**	0.0735	0.148	"	"	"	"	
Fluorene	ND	0.0735	0.148	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0735	0.148	"	"	"	"	
Naphthalene	ND	0.148	0.295	"	"	"	"	
Phenanthrene	**0.0961**	0.0735	0.148	"	"	"	"	J, Q-42
Pyrene	**0.156**	0.0735	0.148	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	1.11	2.21	"	"	"	"	
Butyl benzyl phthalate	ND	0.735	1.48	"	"	"	"	
Diethylphthalate	ND	0.735	1.48	"	"	"	"	
Dimethylphthalate	ND	0.735	1.48	"	"	"	"	
Di-n-butylphthalate	ND	0.735	1.48	"	"	"	"	
Di-n-octyl phthalate	ND	0.735	1.48	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			*Recovery: 46 %*	*Limits: 37-122 %*	"	"	"	*S-05*
2-Fluorobiphenyl (Surr)			*75 %*	*Limits: 44-115 %*	"	"	"	*S-05*
Phenol-d6 (Surr)			*31 %*	*Limits: 33-122 %*	"	"	"	*S-05*
p-Terphenyl-d14 (Surr)			*96 %*	*Limits: 54-127 %*	"	"	"	*S-05*
2-Fluorophenol (Surr)			*5 %*	*Limits: 35-115 %*	"	"	"	*S-05*
2,4,6-Tribromophenol (Surr)			*23 %*	*Limits: 39-132 %*	"	"	"	*S-05*

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-2-102016 (A6J0586-02)			**Matrix: Sediment**		**Batch: 6100876**			
Acenaphthene	ND	0.132	0.265	mg/kg dry	40	10/24/16 17:12	EPA 8270D	
Acenaphthylene	ND	0.132	0.265	"	"	"	"	
Anthracene	ND	0.132	0.265	"	"	"	"	
Benz(a)anthracene	ND	0.132	0.265	"	"	"	"	
Benzo(a)pyrene	ND	0.198	0.397	"	"	"	"	
Benzo(b)fluoranthene	ND	0.198	0.397	"	"	"	"	
Benzo(k)fluoranthene	ND	0.198	0.397	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.132	0.265	"	"	"	"	
Chrysene	ND	0.132	0.265	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.132	0.265	"	"	"	"	
Fluoranthene	**0.154**	0.132	0.265	"	"	"	"	J
Fluorene	ND	0.132	0.265	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.132	0.265	"	"	"	"	
Naphthalene	ND	0.265	0.529	"	"	"	"	
Phenanthrene	**0.140**	0.132	0.265	"	"	"	"	J
Pyrene	**0.297**	0.132	0.265	"	"	"	"	
Bis(2-ethylhexyl)phthalate	**7.03**	1.98	3.97	"	"	"	"	
Butyl benzyl phthalate	ND	1.32	2.65	"	"	"	"	
Diethylphthalate	ND	1.32	2.65	"	"	"	"	
Dimethylphthalate	ND	1.32	2.65	"	"	"	"	
Di-n-butylphthalate	ND	1.32	2.65	"	"	"	"	
Di-n-octyl phthalate	ND	1.32	2.65	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			*Recovery: 55 %*	*Limits: 37-122 %*	"	"	"	*S-05*
2-Fluorobiphenyl (Surr)			*75 %*	*Limits: 44-115 %*	"	"	"	*S-05*
Phenol-d6 (Surr)			*49 %*	*Limits: 33-122 %*	"	"	"	*S-05*
p-Terphenyl-d14 (Surr)			*101 %*	*Limits: 54-127 %*	"	"	"	*S-05*
2-Fluorophenol (Surr)			*57 %*	*Limits: 35-115 %*	"	"	"	*S-05*
2,4,6-Tribromophenol (Surr)			*136 %*	*Limits: 39-132 %*	"	"	"	*S-05*

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-3-102016 (A6J0586-03)			**Matrix: Sediment**		**Batch: 6100876**			
Acenaphthene	ND	0.0738	0.148	mg/kg dry	40	10/24/16 17:47	EPA 8270D	
Acenaphthylene	ND	0.0738	0.148	"	"	"	"	
Anthracene	**0.0994**	0.0738	0.148	"	"	"	"	J
Benz(a)anthracene	**0.684**	0.0738	0.148	"	"	"	"	
Benzo(a)pyrene	**0.847**	0.111	0.222	"	"	"	"	
Benzo(b)fluoranthene	**1.14**	0.111	0.222	"	"	"	"	M-02
Benzo(k)fluoranthene	**0.410**	0.111	0.222	"	"	"	"	M-02
Benzo(g,h,i)perylene	**0.424**	0.0738	0.148	"	"	"	"	
Chrysene	**0.888**	0.0738	0.148	"	"	"	"	
Dibenz(a,h)anthracene	**0.145**	0.0738	0.148	"	"	"	"	J
Fluoranthene	**1.19**	0.0738	0.148	"	"	"	"	
Fluorene	ND	0.0738	0.148	"	"	"	"	
Indeno(1,2,3-cd)pyrene	**0.536**	0.0738	0.148	"	"	"	"	
Naphthalene	ND	0.148	0.296	"	"	"	"	
Phenanthrene	**0.395**	0.0738	0.148	"	"	"	"	
Pyrene	**1.09**	0.0738	0.148	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	1.11	2.22	"	"	"	"	
Butyl benzyl phthalate	ND	0.738	1.48	"	"	"	"	
Diethylphthalate	ND	0.738	1.48	"	"	"	"	
Dimethylphthalate	ND	0.738	1.48	"	"	"	"	
Di-n-butylphthalate	ND	0.738	1.48	"	"	"	"	
Di-n-octyl phthalate	ND	0.738	1.48	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			*Recovery: 64 %*	*Limits: 37-122 %*	"	"	"	*S-05*
2-Fluorobiphenyl (Surr)			*83 %*	*Limits: 44-115 %*	"	"	"	*S-05*
Phenol-d6 (Surr)			*58 %*	*Limits: 33-122 %*	"	"	"	*S-05*
p-Terphenyl-d14 (Surr)			*101 %*	*Limits: 54-127 %*	"	"	"	*S-05*
2-Fluorophenol (Surr)			*70 %*	*Limits: 35-115 %*	"	"	"	*S-05*
2,4,6-Tribromophenol (Surr)			*142 %*	*Limits: 39-132 %*	"	"	"	*S-05*

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PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01)			**Matrix: Sediment**					
Batch: 6100961								
Aluminum	**5830**	17.8	35.5	mg/kg dry	5	10/26/16 13:29	EPA 6020A	
Antimony	**2.30**	0.355	0.711	"	"	"	"	
Arsenic	**6.03**	0.355	1.42	"	"	"	"	
Barium	**221**	0.355	0.711	"	"	"	"	
Cadmium	**0.611**	0.355	0.711	"	"	"	"	J
Chromium	**34.5**	0.711	1.42	"	"	"	"	
Copper	**121**	0.711	1.42	"	"	"	"	
Lead	**49.5**	0.355	0.711	"	"	"	"	
Magnesium	**2910**	17.8	35.5	"	"	"	"	
Mercury	**0.0302**	0.0284	0.0569	"	"	"	"	J
Nickel	**20.7**	0.711	1.42	"	"	"	"	
Silver	ND	0.355	0.711	"	"	"	"	
Zinc	**336**	1.42	2.84	"	"	"	"	
CB-2-102016 (A6J0586-02)			**Matrix: Sediment**					
Batch: 6100961								
Aluminum	**8350**	31.6	63.3	mg/kg dry	5	10/26/16 13:41	EPA 6020A	
Antimony	**5.09**	0.633	1.27	"	"	"	"	
Arsenic	**6.77**	0.633	2.53	"	"	"	"	
Barium	**331**	0.633	1.27	"	"	"	"	
Cadmium	**6.45**	0.633	1.27	"	"	"	"	
Chromium	**66.5**	1.27	2.53	"	"	"	"	
Copper	**340**	1.27	2.53	"	"	"	"	
Lead	**245**	0.633	1.27	"	"	"	"	
Magnesium	**2740**	31.6	63.3	"	"	"	"	
Mercury	**0.813**	0.0506	0.101	"	"	"	"	
Nickel	**35.9**	1.27	2.53	"	"	"	"	
Silver	ND	0.633	1.27	"	"	"	"	
Zinc	**998**	2.53	5.06	"	"	"	"	
CB-3-102016 (A6J0586-03)			**Matrix: Sediment**					
Batch: 6100961								
Aluminum	**6260**	17.3	34.6	mg/kg dry	5	10/26/16 13:44	EPA 6020A	Q-42
Antimony	**12.3**	0.346	0.692	"	"	"	"	Q-42
Arsenic	**8.50**	0.346	1.38	"	"	"	"	
Barium	**130**	0.346	0.692	"	"	"	"	
Cadmium	**1.58**	0.346	0.692	"	"	"	"	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-3-102016 (A6J0586-03)			**Matrix: Sediment**					
Chromium	**55.6**	0.692	1.38	mg/kg dry	5	"	EPA 6020A	
Copper	**150**	0.692	1.38	"	"	"	"	
Magnesium	**2080**	17.3	34.6	"	"	"	"	
Mercury	**0.268**	0.0277	0.0553	"	"	"	"	
Nickel	**35.8**	0.692	1.38	"	"	"	"	
Silver	**0.381**	0.346	0.692	"	"	"	"	J
Zinc	**457**	1.38	2.77	"	"	"	"	Q-42
CB-3-102016 (A6J0586-03RE1)			**Matrix: Sediment**					
Batch: 6100961								
Lead	**2610**	3.46	6.92	mg/kg dry	50	10/26/16 13:59	EPA 6020A	Q-42

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01)			**Matrix: Sediment**					
Batch: 6100793								
Total Organic Carbon	**2.8**	0.010	0.020	% by Weight	1	10/21/16 15:05	PSEP/SM 5310B MOD	
CB-2-102016 (A6J0586-02)			**Matrix: Sediment**					
Batch: 6100793								
Total Organic Carbon	**13**	0.010	0.020	% by Weight	1	10/21/16 15:05	PSEP/SM 5310B MOD	
CB-3-102016 (A6J0586-03)			**Matrix: Sediment**					
Batch: 6100793								
Total Organic Carbon	**4.3**	0.010	0.020	% by Weight	1	10/21/16 15:05	PSEP/SM 5310B MOD	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CB-1-102016 (A6J0586-01)			**Matrix: Sediment**		**Batch: 6100754**			
% Solids	**70.2**	1.00	1.00	% by Weight	1	10/20/16 10:08	EPA 8000C	
CB-2-102016 (A6J0586-02)			**Matrix: Sediment**		**Batch: 6100754**			
% Solids	**38.8**	1.00	1.00	% by Weight	1	10/20/16 10:08	EPA 8000C	
CB-3-102016 (A6J0586-03)			**Matrix: Sediment**		**Batch: 6100754**			
% Solids	**69.6**	1.00	1.00	% by Weight	1	10/20/16 10:08	EPA 8000C	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100746 - EPA 3546 (Fuels)												**Sediment**
Blank (6100746-BLK1)					Prepared: 10/19/16 11:21		Analyzed: 10/19/16 18:55					
NWTPH-Dx												
Diesel	ND	9.09	18.2	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	18.2	36.4	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 108 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS (6100746-BS1)					Prepared: 10/19/16 11:21		Analyzed: 10/19/16 19:15					
NWTPH-Dx												
Diesel	115	10.0	20.0	mg/kg wet	1	125	---	92	76-115%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 109 %*	*Limits: 50-150 %*			*Dilution: 1x*					
Duplicate (6100746-DUP2)					Prepared: 10/19/16 11:21		Analyzed: 10/20/16 12:42					
QC Source Sample: CB-3-102016 (A6J0586-03RE1)												
NWTPH-Dx												
Diesel	ND	71.5	143	mg/kg dry	5	---	ND	---	---	---	30%	
Oil	**994**	143	286	"	"	---	833	---	---	18	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 84 %*	*Limits: 50-150 %*			*Dilution: 5x*					*S-05*

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100735 - EPA 5035A									Soil			
Blank (6100735-BLK1)					Prepared: 10/19/16 09:00 Analyzed: 10/19/16 11:45							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	1.67	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*98 %*	*50-150 %*			*"*					
LCS (6100735-BS2)					Prepared: 10/19/16 09:00 Analyzed: 10/19/16 11:19							
NWTPH-Gx (MS)												
Gasoline Range Organics	22.8	2.50	5.00	mg/kg wet	50	25.0	---	91	70-130%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*92 %*	*50-150 %*			*"*					
Duplicate (6100735-DUP1)					Prepared: 10/13/16 13:25 Analyzed: 10/19/16 13:13							
QC Source Sample: CB-1-102016 (A6J0586-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	5.69	11.4	mg/kg dry	50	---	17.7	---	---	***	30%	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 99 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*96 %*	*50-150 %*			*"*					

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100735 - EPA 5035A							**Soil**					
Blank (6100735-BLK1)					Prepared: 10/19/16 09:00 Analyzed: 10/19/16 11:45							
5035/8260B												
Acetone	ND	0.333	0.667	mg/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	0.0333	0.0667	"	"	---	---	---	---	---	---	
Benzene	ND	0.00333	0.00667	"	"	---	---	---	---	---	---	
Bromobenzene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
Bromochloromethane	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
Bromodichloromethane	ND	0.0333	0.0667	"	"	---	---	---	---	---	---	
Bromoform	ND	0.0333	0.0667	"	"	---	---	---	---	---	---	
Bromomethane	ND	0.333	0.333	"	"	---	---	---	---	---	---	
2-Butanone (MEK)	ND	0.167	0.333	"	"	---	---	---	---	---	---	
n-Butylbenzene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
Carbon disulfide	ND	0.167	0.333	"	"	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
Chlorobenzene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
Chloroethane	ND	0.167	0.333	"	"	---	---	---	---	---	---	Q-31
Chloroform	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
Chloromethane	ND	0.0833	0.167	"	"	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	0.0833	0.167	"	"	---	---	---	---	---	---	
Dibromochloromethane	ND	0.0333	0.0667	"	"	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
Dibromomethane	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.0333	0.0667	"	"	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100735 - EPA 5035A							**Soil**					
Blank (6100735-BLK1)					Prepared: 10/19/16 09:00 Analyzed: 10/19/16 11:45							
1,2-Dichloroethane (EDC)	ND	0.00833	0.0167	mg/kg wet	"	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
1,2-Dichloropropane	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0333	0.0667	"	"	---	---	---	---	---	---	
n-Hexane	ND	0.0333	0.0667	"	"	---	---	---	---	---	---	
2-Hexanone	ND	0.167	0.333	"	"	---	---	---	---	---	---	
Isopropylbenzene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	0.167	0.333	"	"	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
Methylene chloride	ND	0.0833	0.167	"	"	---	---	---	---	---	---	
Naphthalene	ND	0.0333	0.0667	"	"	---	---	---	---	---	---	
n-Propylbenzene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
Styrene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
Toluene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	0.0833	0.167	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0833	0.167	"	"	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100735 - EPA 5035A							Soil					
Blank (6100735-BLK1)					Prepared: 10/19/16 09:00 Analyzed: 10/19/16 11:45							
Trichloroethene (TCE)	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
Trichlorofluoromethane	ND	0.0333	0.0667	"	"	---	---	---	---	---	---	
1,1,2-Trichloro-1,2,2-triflu oroethane (Freon-113)	ND	0.0333	0.0667	"	"	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
Vinyl chloride	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
m,p-Xylene	ND	0.0167	0.0333	"	"	---	---	---	---	---	---	
o-Xylene	ND	0.00833	0.0167	"	"	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 106 %*	*Limits: 70-130 %*			*Dilution: 1x*					
Toluene-d8 (Surr)			*100 %*	*70-130 %*			*"*					
4-Bromofluorobenzene (Surr)			*98 %*	*70-130 %*			*"*					
LCS (6100735-BS1)					Prepared: 10/19/16 09:00 Analyzed: 10/19/16 10:52							
5035/8260B												
Acetone	1.42	0.500	1.00	mg/kg wet	50	2.00	---	71	65-135%	---	---	
Acrylonitrile	0.836	0.0500	0.100	"	"	1.00	---	84	"	---	---	
Benzene	0.874	0.00500	0.0100	"	"	"	---	87	"	---	---	
Bromobenzene	0.869	0.0125	0.0250	"	"	"	---	87	"	---	---	
Bromochloromethane	0.758	0.0250	0.0500	"	"	"	---	76	"	---	---	
Bromodichloromethane	0.874	0.0500	0.100	"	"	"	---	87	"	---	---	
Bromoform	1.00	0.0500	0.100	"	"	"	---	100	"	---	---	
Bromomethane	1.07	0.500	0.500	"	"	"	---	107	"	---	---	
2-Butanone (MEK)	1.40	0.250	0.500	"	"	2.00	---	70	"	---	---	
n-Butylbenzene	0.878	0.0250	0.0500	"	"	1.00	---	88	"	---	---	
sec-Butylbenzene	0.950	0.0250	0.0500	"	"	"	---	95	"	---	---	
tert-Butylbenzene	0.879	0.0250	0.0500	"	"	"	---	88	"	---	---	
Carbon disulfide	1.13	0.250	0.500	"	"	"	---	113	"	---	---	
Carbon tetrachloride	0.869	0.0250	0.0500	"	"	"	---	87	"	---	---	
Chlorobenzene	0.870	0.0125	0.0250	"	"	"	---	87	"	---	---	
Chloroethane	0.438	0.250	0.500	"	"	"	---	44	"	---	---	Q-31, J

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PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100735 - EPA 5035A							**Soil**					
LCS (6100735-BS1)					Prepared: 10/19/16 09:00 Analyzed: 10/19/16 10:52							
Chloroform	0.840	0.0250	0.0500	mg/kg wet	"	"	---	84	"	---	---	
Chloromethane	0.922	0.125	0.250	"	"	"	---	92	"	---	---	
2-Chlorotoluene	0.876	0.0250	0.0500	"	"	"	---	88	"	---	---	
4-Chlorotoluene	0.881	0.0250	0.0500	"	"	"	---	88	"	---	---	
1,2-Dibromo-3-chloropropane	0.849	0.125	0.250	"	"	"	---	85	"	---	---	
Dibromochloromethane	0.910	0.0500	0.100	"	"	"	---	91	"	---	---	
1,2-Dibromoethane (EDB)	0.902	0.0250	0.0500	"	"	"	---	90	"	---	---	
Dibromomethane	0.924	0.0250	0.0500	"	"	"	---	92	"	---	---	
1,2-Dichlorobenzene	0.872	0.0125	0.0250	"	"	"	---	87	"	---	---	
1,3-Dichlorobenzene	0.902	0.0125	0.0250	"	"	"	---	90	"	---	---	
1,4-Dichlorobenzene	0.851	0.0125	0.0250	"	"	"	---	85	"	---	---	
Dichlorodifluoromethane	0.936	0.0500	0.100	"	"	"	---	94	"	---	---	
1,1-Dichloroethane	0.860	0.0125	0.0250	"	"	"	---	86	"	---	---	
1,2-Dichloroethane (EDC)	0.779	0.0125	0.0250	"	"	"	---	78	"	---	---	
1,1-Dichloroethene	0.872	0.0125	0.0250	"	"	"	---	87	"	---	---	
cis-1,2-Dichloroethene	0.786	0.0125	0.0250	"	"	"	---	79	"	---	---	
trans-1,2-Dichloroethene	0.800	0.0125	0.0250	"	"	"	---	80	"	---	---	
1,2-Dichloropropane	0.819	0.0125	0.0250	"	"	"	---	82	"	---	---	
1,3-Dichloropropane	0.860	0.0250	0.0500	"	"	"	---	86	"	---	---	
2,2-Dichloropropane	0.874	0.0250	0.0500	"	"	"	---	87	"	---	---	
1,1-Dichloropropene	0.875	0.0250	0.0500	"	"	"	---	88	"	---	---	
cis-1,3-Dichloropropene	0.812	0.0250	0.0500	"	"	"	---	81	"	---	---	
trans-1,3-Dichloropropene	0.881	0.0250	0.0500	"	"	"	---	88	"	---	---	
Ethylbenzene	0.873	0.0125	0.0250	"	"	"	---	87	"	---	---	
Hexachlorobutadiene	0.836	0.0500	0.100	"	"	"	---	84	"	---	---	
n-Hexane	0.962	0.0500	0.100	"	"	"	---	96	"	---	---	
2-Hexanone	1.46	0.250	0.500	"	"	2.00	---	73	"	---	---	
Isopropylbenzene	0.916	0.0250	0.0500	"	"	1.00	---	92	"	---	---	
4-Isopropyltoluene	0.946	0.0250	0.0500	"	"	"	---	95	"	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100735 - EPA 5035A							**Soil**					
LCS (6100735-BS1)					Prepared: 10/19/16 09:00 Analyzed: 10/19/16 10:52							
4-Methyl-2-pentanone (MiBK)	1.43	0.250	0.500	mg/kg wet	"	2.00	---	71	"	---	---	
Methyl tert-butyl ether (MTBE)	0.870	0.0250	0.0500	"	"	1.00	---	87	"	---	---	
Methylene chloride	0.898	0.125	0.250	"	"	"	---	90	"	---	---	
Naphthalene	0.870	0.0500	0.100	"	"	"	---	87	"	---	---	
n-Propylbenzene	0.861	0.0125	0.0250	"	"	"	---	86	"	---	---	
Styrene	0.896	0.0250	0.0500	"	"	"	---	90	"	---	---	
1,1,1,2-Tetrachloroethane	0.870	0.0125	0.0250	"	"	"	---	87	"	---	---	
1,1,2,2-Tetrachloroethane	0.878	0.0250	0.0500	"	"	"	---	88	"	---	---	
Tetrachloroethene (PCE)	0.842	0.0125	0.0250	"	"	"	---	84	"	---	---	
Toluene	0.818	0.0250	0.0500	"	"	"	---	82	"	---	---	
1,2,3-Trichlorobenzene	0.873	0.125	0.250	"	"	"	---	87	"	---	---	
1,2,4-Trichlorobenzene	0.812	0.125	0.250	"	"	"	---	81	"	---	---	
1,1,1-Trichloroethane	0.852	0.0125	0.0250	"	"	"	---	85	"	---	---	
1,1,2-Trichloroethane	0.906	0.0125	0.0250	"	"	"	---	91	"	---	---	
Trichloroethene (TCE)	0.919	0.0125	0.0250	"	"	"	---	92	"	---	---	
Trichlorofluoromethane	0.684	0.0500	0.100	"	"	"	---	68	"	---	---	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	0.910	0.0500	0.100	"	"	"	---	91	"	---	---	
1,2,3-Trichloropropane	0.927	0.0250	0.0500	"	"	"	---	93	"	---	---	
1,2,4-Trimethylbenzene	0.930	0.0250	0.0500	"	"	"	---	93	"	---	---	
1,3,5-Trimethylbenzene	0.904	0.0250	0.0500	"	"	"	---	90	"	---	---	
Vinyl chloride	1.07	0.0125	0.0250	"	"	"	---	107	"	---	---	
m,p-Xylene	1.84	0.0250	0.0500	"	"	2.00	---	92	"	---	---	
o-Xylene	0.910	0.0125	0.0250	"	"	1.00	---	91	"	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 102 %*		*Limits: 70-130 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*94 %*		*70-130 %*			*"*				
4-Bromofluorobenzene (Surr)			*98 %*		*70-130 %*			*"*				
Duplicate (6100735-DUP1)					Prepared: 10/13/16 13:25 Analyzed: 10/19/16 13:13							

QC Source Sample: CB-1-102016 (A6J0586-01)

5035/8260B

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100735 - EPA 5035A							**Soil**					
Duplicate (6100735-DUP1)					Prepared: 10/13/16 13:25 Analyzed: 10/19/16 13:13							
QC Source Sample: CB-1-102016 (A6J0586-01)												
Acetone	ND	1.14	2.27	mg/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	0.114	0.227	"	"	---	ND	---	---	---	30%	
Benzene	ND	0.0114	0.0227	"	"	---	ND	---	---	---	30%	
Bromobenzene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.114	0.227	"	"	---	ND	---	---	---	30%	
Bromoform	ND	0.114	0.227	"	"	---	ND	---	---	---	30%	
Bromomethane	ND	1.14	1.14	"	"	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	0.569	1.14	"	"	---	ND	---	---	---	30%	
n-Butylbenzene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
Carbon disulfide	ND	0.569	1.14	"	"	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
Chloroethane	ND	0.569	1.14	"	"	---	ND	---	---	---	30%	Q-31
Chloroform	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
Chloromethane	ND	0.284	0.569	"	"	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloroprop ane	ND	0.284	0.569	"	"	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.114	0.227	"	"	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
Dibromomethane	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.114	0.227	"	"	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100735 - EPA 5035A							**Soil**					
Duplicate (6100735-DUP1)					Prepared: 10/13/16 13:25 Analyzed: 10/19/16 13:13							
QC Source Sample: CB-1-102016 (A6J0586-01)												
1,2-Dichloroethane (EDC)	ND	0.0284	0.0569	mg/kg dry	"	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	0.114	0.227	"	"	---	ND	---	---	---	30%	
n-Hexane	ND	0.114	0.227	"	"	---	ND	---	---	---	30%	
2-Hexanone	ND	0.569	1.14	"	"	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	0.569	1.14	"	"	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
Methylene chloride	ND	0.284	0.569	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	0.114	0.227	"	"	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
Styrene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
Toluene	**0.284**	0.0569	0.114	"	"	---	3.09	---	---	166	30%	Q-04
1,2,3-Trichlorobenzene	ND	0.284	0.569	"	"	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	0.284	0.569	"	"	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100735 - EPA 5035A							**Soil**					
Duplicate (6100735-DUP1)					Prepared: 10/13/16 13:25 Analyzed: 10/19/16 13:13							
QC Source Sample: CB-1-102016 (A6J0586-01)												
1,1,2-Trichloroethane	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	0.114	0.227	"	"	---	ND	---	---	---	30%	
1,1,2-Trichloro-1,2,2-triflu oroethane (Freon-113)	ND	0.114	0.227	"	"	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.0569	0.114	"	"	---	ND	---	---	---	30%	
o-Xylene	ND	0.0284	0.0569	"	"	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 106 %*		*Limits: 70-130 %*				*Dilution: 1x*			
Toluene-d8 (Surr)			*98 %*		*70-130 %*				*"*			
4-Bromofluorobenzene (Surr)			*94 %*		*70-130 %*				*"*			

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100951 - EPA 3546							**Sediment**					
Blank (6100951-BLK1)					Prepared: 10/25/16 12:28 Analyzed: 10/26/16 11:23							**C-07**
EPA 8082A												
Aroclor 1016	ND	0.00417	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.00417	0.00833	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	0.00417	0.00833	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	0.00417	0.00833	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	0.00417	0.00833	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	0.00417	0.00833	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	0.00417	0.00833	"	"	---	---	---	---	---	---	
Aroclor 1262	ND	0.00417	0.00833	"	"	---	---	---	---	---	---	
Aroclor 1268	ND	0.00417	0.00833	"	"	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 108 %*	*Limits: 72-126 %*			*Dilution: 1x*					
LCS (6100951-BS1)					Prepared: 10/25/16 12:28 Analyzed: 10/26/16 11:42							**C-07**
EPA 8082A												
Aroclor 1016	0.224	0.00500	0.0100	mg/kg wet	1	0.250	---	89	47-134%	---	---	
Aroclor 1260	0.258	0.00500	0.0100	"	"	"	---	103	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 102 %*	*Limits: 72-126 %*			*Dilution: 1x*					
Duplicate (6100951-DUP1)					Prepared: 10/25/16 12:28 Analyzed: 10/26/16 12:36							**C-07**
QC Source Sample: CB-1-102016 (A6J0586-01)												
EPA 8082A												
Aroclor 1016	ND	0.00603	0.0121	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	0.00603	0.0121	"	"	---	ND	---	---	---	30%	
Aroclor 1232	ND	0.0265	0.0265	"	"	---	ND	---	---	---	30%	R-02
Aroclor 1242	ND	0.0121	0.0121	"	"	---	ND	---	---	---	30%	
Aroclor 1248	ND	0.00603	0.0121	"	"	---	ND	---	---	---	30%	
Aroclor 1254	**0.0369**	0.00603	0.0121	"	"	---	0.0358	---	---	3	30%	
Aroclor 1260	ND	0.0217	0.0217	"	"	---	ND	---	---	---	30%	R-02
Aroclor 1262	ND	0.0121	0.0121	"	"	---	ND	---	---	---	30%	
Aroclor 1268	ND	0.00603	0.0121	"	"	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 82 %*	*Limits: 72-126 %*			*Dilution: 1x*					

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100951 - EPA 3546							**Sediment**					
Matrix Spike (6100951-MS2)					Prepared: 10/25/16 12:28		Analyzed: 10/27/16 09:45					**C-07**
QC Source Sample: CB-3-102016 (A6J0586-03RE1)												
EPA 8082A												
Aroclor 1016	0.197	0.00612	0.0122	mg/kg dry	1	0.306	ND	65	47-134%	---	---	
Aroclor 1260	0.318	0.00612	0.0122	"	"	"	0.141	58	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)				*Recovery: 78 %*	*Limits: 72-126 %*		*Dilution: 1x*					

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100964 - EPA 3546							**Sediment**					
Blank (6100964-BLK1)					Prepared: 10/25/16 14:38 Analyzed: 10/26/16 17:32							**C-05**
EPA 8081B												
Aldrin	ND	0.000909	0.00182	mg/kg wet	1	---	---	---	---	---	---	
alpha-BHC	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
beta-BHC	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
delta-BHC	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
gamma-BHC (Lindane)	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
cis-Chlordane	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
trans-Chlordane	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
4,4'-DDD	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
4,4'-DDE	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
4,4'-DDT	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Dieldrin	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Endosulfan I	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Endosulfan II	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Endosulfan sulfate	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Endrin	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Endrin Aldehyde	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Endrin ketone	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Heptachlor	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Heptachlor epoxide	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Methoxychlor	ND	0.00273	0.00545	"	"	---	---	---	---	---	---	
Chlordane (Technical)	ND	0.0273	0.0545	"	"	---	---	---	---	---	---	
Toxaphene (Total)	ND	0.0273	0.0545	"	"	---	---	---	---	---	---	
cis-Nonachlor	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
2,4'-DDD	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
2,4'-DDE	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
2,4'-DDT	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.00227	0.00455	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Mirex	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	
Oxychlordane	ND	0.000909	0.00182	"	"	---	---	---	---	---	---	

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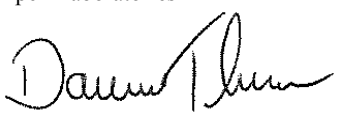

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100964 - EPA 3546							**Sediment**					
Blank (6100964-BLK1)				Prepared: 10/25/16 14:38		Analyzed: 10/26/16 17:32						**C-05**
trans-Nonachlor	ND	0.000909	0.00182	mg/kg wet	"	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 95 %*	*Limits: 42-129 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*95 %*	*65-151 %*			*"*					
LCS (6100964-BS1)				Prepared: 10/25/16 14:38		Analyzed: 10/26/16 17:50						**C-05**
EPA 8081B												
Aldrin	0.0454	0.00100	0.00200	mg/kg wet	1	0.0500	---	91	45-136%	---	---	
alpha-BHC	0.0457	0.00100	0.00200	"	"	"	---	91	45-137%	---	---	
beta-BHC	0.0450	0.00100	0.00200	"	"	"	---	90	50-136%	---	---	
delta-BHC	0.0473	0.00100	0.00200	"	"	"	---	95	47-139%	---	---	
gamma-BHC (Lindane)	0.0477	0.00100	0.00200	"	"	"	---	95	49-135%	---	---	
cis-Chlordane	0.0465	0.00100	0.00200	"	"	"	---	93	54-133%	---	---	
trans-Chlordane	0.0466	0.00100	0.00200	"	"	"	---	93	53-135%	---	---	
4,4'-DDD	0.0498	0.00100	0.00200	"	"	"	---	100	56-139%	---	---	
4,4'-DDE	0.0491	0.00100	0.00200	"	"	"	---	98	56-134%	---	---	
4,4'-DDT	0.0541	0.00100	0.00200	"	"	"	---	108	50-141%	---	---	
Dieldrin	0.0479	0.00100	0.00200	"	"	"	---	96	56-136%	---	---	
Endosulfan I	0.0454	0.00100	0.00200	"	"	"	---	91	52-132%	---	---	
Endosulfan II	0.0471	0.00100	0.00200	"	"	"	---	94	53-134%	---	---	
Endosulfan sulfate	0.0465	0.00100	0.00200	"	"	"	---	93	55-136%	---	---	
Endrin	0.0555	0.00100	0.00200	"	"	"	---	111	56-140%	---	---	
Endrin Aldehyde	0.0434	0.00100	0.00200	"	"	"	---	87	35-137%	---	---	
Endrin ketone	0.0469	0.00100	0.00200	"	"	"	---	94	55-136%	---	---	
Heptachlor	0.0451	0.00100	0.00200	"	"	"	---	90	47-136%	---	---	
Heptachlor epoxide	0.0460	0.00100	0.00200	"	"	"	---	92	52-136%	---	---	
Methoxychlor	0.0600	0.00300	0.00600	"	"	"	---	120	52-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 92 %*	*Limits: 42-129 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*92 %*	*65-151 %*			*"*					
LCS (6100964-BS2)				Prepared: 10/25/16 14:38		Analyzed: 10/26/16 18:07						**C-05**
EPA 8081B												
cis-Nonachlor	0.0457	0.00100	0.00200	mg/kg wet	1	0.0500	---	91	58-142%	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100964 - EPA 3546							**Sediment**					
LCS (6100964-BS2)					Prepared: 10/25/16 14:38		Analyzed: 10/26/16 18:07					**C-05**
2,4'-DDD	0.0460	0.00100	0.00200	mg/kg wet	"	"	---	92	75-130%	---	---	
2,4'-DDE	0.0450	0.00100	0.00200	"	"	"	---	90	74-131%	---	---	
2,4'-DDT	0.0488	0.00100	0.00200	"	"	"	---	98	64-136%	---	---	
Hexachlorobenzene	0.0440	0.00250	0.00500	"	"	"	---	88	57-126%	---	---	
Hexachlorobutadiene	0.0380	0.00100	0.00200	"	"	"	---	76	38-109%	---	---	
Mirex	0.0435	0.00100	0.00200	"	"	"	---	87	65-128%	---	---	
Oxychlordane	0.0426	0.00100	0.00200	"	"	"	---	85	61-132%	---	---	
trans-Nonachlor	0.0446	0.00100	0.00200	"	"	"	---	89	58-134%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 91 %*	*Limits: 42-129 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*90 %*	*65-151 %*			*"*					
Duplicate (6100964-DUP1)					Prepared: 10/25/16 14:38		Analyzed: 10/26/16 18:59					**C-05**
QC Source Sample: CB-1-102016 (A6J0586-01RE1)												
EPA 8081B												
Aldrin	ND	0.00265	0.00530	mg/kg dry	1	---	ND	---	---	---	30%	
alpha-BHC	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
beta-BHC	ND	0.00265	0.00530	"	"	---	0.00485	---	---	***	30%	
delta-BHC	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
gamma-BHC (Lindane)	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
cis-Chlordane	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
trans-Chlordane	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
4,4'-DDD	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
4,4'-DDE	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
4,4'-DDT	ND	0.00636	0.00636	"	"	---	ND	---	---	---	30%	R-02
Dieldrin	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
Endosulfan I	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
Endosulfan II	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
Endosulfan sulfate	ND	0.00530	0.00530	"	"	---	ND	---	---	---	30%	
Endrin	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
Endrin Aldehyde	ND	0.00530	0.00530	"	"	---	ND	---	---	---	30%	
Endrin ketone	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
Heptachlor	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100964 - EPA 3546							**Sediment**					
Duplicate (6100964-DUP1)					Prepared: 10/25/16 14:38		Analyzed: 10/26/16 18:59					**C-05**
QC Source Sample: CB-1-102016 (A6J0586-01RE1)												
Heptachlor epoxide	ND	0.00530	0.00530	"	"	---	ND	---	---	---	30%	
Methoxychlor	ND	0.00795	0.0159	"	"	---	ND	---	---	---	30%	
Chlordane (Technical)	ND	0.0795	0.159	"	"	---	ND	---	---	---	30%	
Toxaphene (Total)	ND	0.0795	0.159	"	"	---	ND	---	---	---	30%	
cis-Nonachlor	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
2,4'-DDD	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
2,4'-DDE	ND	0.00530	0.00530	"	"	---	ND	---	---	---	30%	
2,4'-DDT	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	0.00663	0.0133	"	"	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	0.00530	0.00530	"	"	---	ND	---	---	---	30%	
Mirex	ND	0.00663	0.00663	"	"	---	ND	---	---	---	30%	R-02
Oxychlordane	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
trans-Nonachlor	ND	0.00265	0.00530	"	"	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 93 %*	*Limits: 42-129 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*111 %*	*65-151 %*			*"*					
Matrix Spike (6100964-MS3)					Prepared: 10/25/16 14:38		Analyzed: 10/28/16 12:05					**C-05**
QC Source Sample: CB-3-102016 (A6J0586-03RE2)												
EPA 8081B												
Aldrin	0.0602	0.0132	0.0265	mg/kg dry	5	0.0661	ND	91	45-136%	---	---	
alpha-BHC	0.0647	0.0132	0.0265	"	"	"	ND	98	45-137%	---	---	
beta-BHC	0.0661	0.0132	0.0265	"	"	"	ND	100	50-136%	---	---	
delta-BHC	0.0645	0.0132	0.0265	"	"	"	ND	98	47-139%	---	---	
gamma-BHC (Lindane)	0.0677	0.0132	0.0265	"	"	"	ND	102	49-135%	---	---	
cis-Chlordane	0.0763	0.0132	0.0265	"	"	"	ND	115	54-133%	---	---	
trans-Chlordane	0.0862	0.0132	0.0265	"	"	"	0.0150	108	53-135%	---	---	
4,4'-DDD	0.0898	0.0132	0.0265	"	"	"	ND	136	56-139%	---	---	Q-41
4,4'-DDE	0.0704	0.0132	0.0265	"	"	"	ND	106	56-134%	---	---	
4,4'-DDT	0.206	0.0132	0.0265	"	"	"	0.0732	200	50-141%	---	---	Q-02, Q-41
Dieldrin	0.0702	0.0132	0.0265	"	"	"	ND	106	56-136%	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100964 - EPA 3546							**Sediment**					
Matrix Spike (6100964-MS3)					Prepared: 10/25/16 14:38		Analyzed: 10/28/16 12:05					**C-05**
QC Source Sample: CB-3-102016 (A6J0586-03RE2)												
Endosulfan I	0.0750	0.0132	0.0265	mg/kg dry	"	"	ND	113	52-132%	---	---	
Endosulfan II	0.0631	0.0132	0.0265	"	"	"	ND	95	53-134%	---	---	
Endosulfan sulfate	0.0685	0.0132	0.0265	"	"	"	ND	104	55-136%	---	---	
Endrin	0.0840	0.0132	0.0265	"	"	"	ND	127	56-140%	---	---	
Endrin Aldehyde	0.0784	0.0132	0.0265	"	"	"	0.109	-46	35-137%	---	---	Q-02
Endrin ketone	0.0719	0.0132	0.0265	"	"	"	ND	109	55-136%	---	---	
Heptachlor	0.0760	0.0132	0.0265	"	"	"	ND	115	47-136%	---	---	
Heptachlor epoxide	0.0815	0.0132	0.0265	"	"	"	0.0302	78	52-136%	---	---	
Methoxychlor	0.109	0.0397	0.0794	"	"	"	ND	164	52-143%	---	---	Q-02
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 97 %*	*Limits: 42-129 %*			*Dilution: 5x*					
Decachlorobiphenyl (Surr)			*127 %*	*65-151 %*			*"*					
Matrix Spike (6100964-MS4)					Prepared: 10/25/16 14:38		Analyzed: 10/28/16 12:23					**C-05**
QC Source Sample: CB-3-102016 (A6J0586-03RE2)												
EPA 8081B												
cis-Nonachlor	0.0769	0.0135	0.0270	mg/kg dry	5	0.0674	ND	114	58-142%	---	---	
2,4'-DDD	0.0882	0.0135	0.0270	"	"	"	0.0434	66	75-130%	---	---	Q-02
2,4'-DDE	0.0661	0.0135	0.0270	"	"	"	ND	98	74-131%	---	---	
2,4'-DDT	0.0720	0.0135	0.0270	"	"	"	ND	107	64-136%	---	---	
Hexachlorobenzene	0.0627	0.0337	0.0674	"	"	"	ND	93	57-126%	---	---	J
Hexachlorobutadiene	0.0379	0.0135	0.0270	"	"	"	ND	56	38-109%	---	---	
Mirex	0.118	0.0135	0.0270	"	"	"	0.0284	132	65-128%	---	---	Q-02
Oxychlordane	0.0580	0.0135	0.0270	"	"	"	ND	86	61-132%	---	---	
trans-Nonachlor	0.103	0.0135	0.0270	"	"	"	0.0233	118	58-134%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 88 %*	*Limits: 42-129 %*			*Dilution: 5x*					
Decachlorobiphenyl (Surr)			*128 %*	*65-151 %*			*"*					

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100876 - EPA 3546							**Sediment**					
Blank (6100876-BLK1)					Prepared: 10/21/16 16:57 Analyzed: 10/24/16 14:48							
EPA 8270D												
Acenaphthene	ND	0.00125	0.00250	mg/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
Anthracene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00188	0.00375	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00188	0.00375	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00188	0.00375	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
Chrysene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
Fluoranthene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
Fluorene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.00250	0.00500	"	"	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.00250	0.00500	"	"	---	---	---	---	---	---	
Naphthalene	ND	0.00250	0.00500	"	"	---	---	---	---	---	---	
Phenanthrene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
Pyrene	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
Carbazole	ND	0.00188	0.00375	"	"	---	---	---	---	---	---	
Dibenzofuran	ND	0.00125	0.00250	"	"	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.0125	0.0250	"	"	---	---	---	---	---	---	
2-Chlorophenol	ND	0.00625	0.0125	"	"	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.00625	0.0125	"	"	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.00625	0.0125	"	"	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.0312	0.0625	"	"	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.0312	0.0625	"	"	---	---	---	---	---	---	
2-Methylphenol	ND	0.00312	0.00625	"	"	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.00312	0.00625	"	"	---	---	---	---	---	---	
2-Nitrophenol	ND	0.0125	0.0250	"	"	---	---	---	---	---	---	
4-Nitrophenol	ND	0.0125	0.0250	"	"	---	---	---	---	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100876 - EPA 3546									**Sediment**			
Blank (6100876-BLK1)					Prepared: 10/21/16 16:57 Analyzed: 10/24/16 14:48							
Pentachlorophenol (PCP)	ND	0.0125	0.0250	mg/kg wet	"	---	---	---	---	---	---	
Phenol	ND	0.00250	0.00500	"	"	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.00625	0.0125	"	"	---	---	---	---	---	---	
2,3,5,6-Tetrachlorophenol	ND	0.00625	0.0125	"	"	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.00625	0.0125	"	"	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.00625	0.0125	"	"	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.0188	0.0375	"	"	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.0125	0.0250	"	"	---	---	---	---	---	---	
Diethylphthalate	ND	0.0125	0.0250	"	"	---	---	---	---	---	---	
Dimethylphthalate	ND	0.0125	0.0250	"	"	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.0125	0.0250	"	"	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.0125	0.0250	"	"	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 69 %*	*Limits: 37-122 %*		*Dilution: 1x*						
2-Fluorobiphenyl (Surr)			*87 %*	*44-115 %*		*"*						
Phenol-d6 (Surr)			*80 %*	*33-122 %*		*"*						
p-Terphenyl-d14 (Surr)			*101 %*	*54-127 %*		*"*						
2-Fluorophenol (Surr)			*83 %*	*35-115 %*		*"*						
2,4,6-Tribromophenol (Surr)			*107 %*	*39-132 %*		*"*						
LCS (6100876-BS1)					Prepared: 10/21/16 16:57 Analyzed: 10/24/16 15:24							
EPA 8270D												
Acenaphthene	0.463	0.00133	0.00267	mg/kg wet	1	0.533	---	87	40-122%	---	---	
Acenaphthylene	0.485	0.00133	0.00267	"	"	"	---	91	32-132%	---	---	
Anthracene	0.480	0.00133	0.00267	"	"	"	---	90	47-123%	---	---	
Benz(a)anthracene	0.463	0.00133	0.00267	"	"	"	---	87	49-126%	---	---	
Benzo(a)pyrene	0.479	0.00200	0.00400	"	"	"	---	90	45-129%	---	---	
Benzo(b)fluoranthene	0.511	0.00200	0.00400	"	"	"	---	96	45-132%	---	---	
Benzo(k)fluoranthene	0.512	0.00200	0.00400	"	"	"	---	96	47-132%	---	---	
Benzo(g,h,i)perylene	0.463	0.00133	0.00267	"	"	"	---	87	43-134%	---	---	
Chrysene	0.464	0.00133	0.00267	"	"	"	---	87	50-124%	---	---	
Dibenz(a,h)anthracene	0.480	0.00133	0.00267	"	"	"	---	90	45-134%	---	---	
Fluoranthene	0.481	0.00133	0.00267	"	"	"	---	90	50-127%	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100876 - EPA 3546							**Sediment**					
LCS (6100876-BS1)					Prepared: 10/21/16 16:57 Analyzed: 10/24/16 15:24							
Fluorene	0.491	0.00133	0.00267	mg/kg wet	"	"	---	92	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.461	0.00133	0.00267	"	"	"	---	86	45-133%	---	---	
1-Methylnaphthalene	0.453	0.00267	0.00533	"	"	"	---	85	40-120%	---	---	
2-Methylnaphthalene	0.460	0.00267	0.00533	"	"	"	---	86	38-122%	---	---	
Naphthalene	0.434	0.00267	0.00533	"	"	"	---	81	35-123%	---	---	
Phenanthrene	0.453	0.00133	0.00267	"	"	"	---	85	50-121%	---	---	
Pyrene	0.481	0.00133	0.00267	"	"	"	---	90	47-127%	---	---	
Carbazole	0.495	0.00200	0.00400	"	"	"	---	93	50-122%	---	---	
Dibenzofuran	0.487	0.00133	0.00267	"	"	"	---	91	44-120%	---	---	
4-Chloro-3-methylphenol	0.454	0.0133	0.0267	"	"	"	---	85	45-122%	---	---	
2-Chlorophenol	0.448	0.00667	0.0133	"	"	"	---	84	34-121%	---	---	
2,4-Dichlorophenol	0.475	0.00667	0.0133	"	"	"	---	89	40-122%	---	---	
2,4-Dimethylphenol	0.467	0.00667	0.0133	"	"	"	---	88	30-127%	---	---	
2,4-Dinitrophenol	0.487	0.0333	0.0667	"	"	"	---	91	5-137%	---	---	
4,6-Dinitro-2-methylphenol	0.531	0.0333	0.0667	"	"	"	---	100	29-132%	---	---	
2-Methylphenol	0.408	0.00333	0.00667	"	"	"	---	76	32-122%	---	---	
3+4-Methylphenol(s)	0.422	0.00333	0.00667	"	"	"	---	79	34-120%	---	---	
2-Nitrophenol	0.511	0.0133	0.0267	"	"	"	---	96	36-123%	---	---	
4-Nitrophenol	0.424	0.0133	0.0267	"	"	"	---	80	30-132%	---	---	Q-31
Pentachlorophenol (PCP)	0.494	0.0133	0.0267	"	"	"	---	93	25-133%	---	---	
Phenol	0.436	0.00267	0.00533	"	"	"	---	82	34-120%	---	---	
2,3,4,6-Tetrachlorophenol	0.556	0.00667	0.0133	"	"	"	---	104	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	0.520	0.00667	0.0133	"	"	"	---	97	40-120%	---	---	
2,4,5-Trichlorophenol	0.522	0.00667	0.0133	"	"	"	---	98	41-124%	---	---	
2,4,6-Trichlorophenol	0.528	0.00667	0.0133	"	"	"	---	99	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	0.461	0.0200	0.0400	"	"	"	---	86	51-133%	---	---	
Butyl benzyl phthalate	0.454	0.0133	0.0267	"	"	"	---	85	48-132%	---	---	
Diethylphthalate	0.469	0.0133	0.0267	"	"	"	---	88	50-124%	---	---	
Dimethylphthalate	0.496	0.0133	0.0267	"	"	"	---	93	48-124%	---	---	
Di-n-butylphthalate	0.461	0.0133	0.0267	"	"	"	---	86	51-128%	---	---	
Di-n-octyl phthalate	0.438	0.0133	0.0267	"	"	"	---	82	44-140%	---	---	

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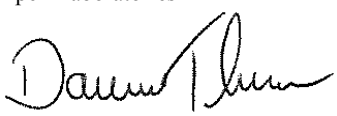

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100876 - EPA 3546							**Sediment**					
LCS (6100876-BS1)					Prepared: 10/21/16 16:57 Analyzed: 10/24/16 15:24							
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 72 %*	*Limits: 37-122 %*			*Dilution: 1x*					
2-Fluorobiphenyl (Surr)			*92 %*	*44-115 %*			*"*					
Phenol-d6 (Surr)			*87 %*	*33-122 %*			*"*					
p-Terphenyl-d14 (Surr)			*100 %*	*54-127 %*			*"*					
2-Fluorophenol (Surr)			*88 %*	*35-115 %*			*"*					
2,4,6-Tribromophenol (Surr)			*128 %*	*39-132 %*			*"*					*Q-41*
Duplicate (6100876-DUP1)					Prepared: 10/21/16 16:57 Analyzed: 10/24/16 16:36							
QC Source Sample: CB-1-102016 (A6J0586-01)												
EPA 8270D												
Acenaphthene	ND	0.0747	0.150	mg/kg dry	40	---	ND	---	---	---	30%	
Acenaphthylene	ND	0.0747	0.150	"	"	---	ND	---	---	---	30%	
Anthracene	ND	0.0747	0.150	"	"	---	ND	---	---	---	30%	
Benz(a)anthracene	**0.0805**	0.0747	0.150	"	"	---	0.0764	---	---	5	30%	J
Benzo(a)pyrene	**0.127**	0.112	0.225	"	"	---	ND	---	---		30%	J
Benzo(b)fluoranthene	**0.123**	0.112	0.225	"	"	---	ND	---	---		30%	J
Benzo(k)fluoranthene	ND	0.112	0.225	"	"	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	**0.0924**	0.0747	0.150	"	"	---	ND	---	---		30%	J
Chrysene	**0.154**	0.0747	0.150	"	"	---	0.141	---	---	9	30%	M-02
Dibenz(a,h)anthracene	ND	0.0747	0.150	"	"	---	ND	---	---	---	30%	
Fluoranthene	**0.203**	0.0747	0.150	"	"	---	0.160	---	---	24	30%	
Fluorene	ND	0.0747	0.150	"	"	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	0.0747	0.150	"	"	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	0.150	0.300	"	"	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	0.150	0.300	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	0.150	0.300	"	"	---	ND	---	---	---	30%	
Phenanthrene	**0.163**	0.0747	0.150	"	"	---	0.0961	---	---	51	30%	Q-17
Pyrene	**0.203**	0.0747	0.150	"	"	---	0.156	---	---	27	30%	
Carbazole	ND	0.112	0.225	"	"	---	ND	---	---	---	30%	
Dibenzofuran	ND	0.0747	0.150	"	"	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	**2.14**	1.12	2.25	"	"	---	ND	---	---		30%	J
Butyl benzyl phthalate	ND	0.747	1.50	"	"	---	ND	---	---	---	30%	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100876 - EPA 3546							**Sediment**					
Duplicate (6100876-DUP1)					Prepared: 10/21/16 16:57 Analyzed: 10/24/16 16:36							
QC Source Sample: CB-1-102016 (A6J0586-01)												
Diethylphthalate	ND	0.747	1.50	mg/kg dry	"	---	ND	---	---	---	30%	
Dimethylphthalate	ND	0.747	1.50	"	"	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	0.747	1.50	"	"	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	0.747	1.50	"	"	---	ND	---	---	---	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 55 %*	*Limits: 37-122 %*			*Dilution: 40x*					*S-05*
2-Fluorobiphenyl (Surr)			*78 %*	*44-115 %*			*"*					*S-05*
Phenol-d6 (Surr)			*30 %*	*33-122 %*			*"*					*S-05*
p-Terphenyl-d14 (Surr)			*102 %*	*54-127 %*			*"*					*S-05*
2-Fluorophenol (Surr)			*11 %*	*35-115 %*			*"*					*S-05*
2,4,6-Tribromophenol (Surr)			*27 %*	*39-132 %*			*"*					*S-05*

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100961 - EPA 3051A							**Sediment**					
Blank (6100961-BLK1)					Prepared: 10/25/16 14:15 Analyzed: 10/26/16 13:23							
EPA 6020A												
Aluminum	ND	12.5	25.0	mg/kg wet	5	---	---	---	---	---	---	
Antimony	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Arsenic	ND	0.250	1.00	"	"	---	---	---	---	---	---	
Barium	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Cadmium	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Chromium	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Copper	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Lead	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Magnesium	ND	12.5	25.0	"	"	---	---	---	---	---	---	
Mercury	ND	0.0200	0.0400	"	"	---	---	---	---	---	---	
Nickel	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Silver	ND	0.250	0.500	"	"	---	---	---	---	---	---	
Zinc	ND	1.00	2.00	"	"	---	---	---	---	---	---	
LCS (6100961-BS1)					Prepared: 10/25/16 14:15 Analyzed: 10/26/16 13:26							
EPA 6020A												
Aluminum	2500	12.5	25.0	mg/kg wet	5	2500	---	100	80-120%	---	---	
Antimony	12.7	0.250	0.500	"	"	12.5	---	102	"	---	---	
Arsenic	25.8	0.250	1.00	"	"	25.0	---	103	"	---	---	
Barium	25.1	0.250	0.500	"	"	"	---	100	"	---	---	
Cadmium	24.7	0.250	0.500	"	"	"	---	99	"	---	---	
Chromium	25.2	0.500	1.00	"	"	"	---	101	"	---	---	
Copper	24.6	0.500	1.00	"	"	"	---	99	"	---	---	
Lead	25.5	0.250	0.500	"	"	"	---	102	"	---	---	
Magnesium	2480	12.5	25.0	"	"	2500	---	99	"	---	---	
Mercury	0.496	0.0200	0.0400	"	"	0.500	---	99	"	---	---	
Nickel	25.2	0.500	1.00	"	"	25.0	---	101	"	---	---	
Silver	12.6	0.250	0.500	"	"	12.5	---	101	"	---	---	
Zinc	24.8	1.00	2.00	"	"	25.0	---	99	"	---	---	
Duplicate (6100961-DUP1)					Prepared: 10/25/16 14:15 Analyzed: 10/26/16 13:47							

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100961 - EPA 3051A							**Sediment**					
Duplicate (6100961-DUP1)					Prepared: 10/25/16 14:15 Analyzed: 10/26/16 13:47							
QC Source Sample: CB-3-102016 (A6J0586-03)												
EPA 6020A												
Aluminum	**6290**	17.4	34.9	mg/kg dry	5	---	6260	---	---	0.6	40%	
Antimony	**11.9**	0.349	0.697	"	"	---	12.3	---	---	3	40%	
Arsenic	**8.15**	0.349	1.39	"	"	---	8.50	---	---	4	40%	
Barium	**136**	0.349	0.697	"	"	---	130	---	---	4	40%	
Cadmium	**1.91**	0.349	0.697	"	"	---	1.58	---	---	19	40%	
Chromium	**63.0**	0.697	1.39	"	"	---	55.6	---	---	13	40%	
Copper	**160**	0.697	1.39	"	"	---	150	---	---	6	40%	
Magnesium	**2130**	17.4	34.9	"	"	---	2080	---	---	3	40%	
Mercury	**0.256**	0.0279	0.0558	"	"	---	0.268	---	---	5	40%	
Nickel	**40.5**	0.697	1.39	"	"	---	35.8	---	---	12	40%	
Silver	**0.432**	0.349	0.697	"	"	---	0.381	---	---	13	40%	J
Zinc	**513**	1.39	2.79	"	"	---	457	---	---	12	40%	
Duplicate (6100961-DUP2)					Prepared: 10/25/16 14:15 Analyzed: 10/26/16 14:02							
QC Source Sample: CB-3-102016 (A6J0586-03)												
EPA 6020A												
Lead	**2780**	3.49	6.97	mg/kg dry	50	---	2400	---	---	15	40%	Q-16
Matrix Spike (6100961-MS1)					Prepared: 10/25/16 14:15 Analyzed: 10/26/16 13:50							
QC Source Sample: CB-3-102016 (A6J0586-03)												
EPA 6020A												
Aluminum	14200	17.4	34.9	mg/kg dry	5	3490	6260	227	75-125%	---	---	Q-03
Antimony	34.7	0.349	0.697	"	"	17.4	12.3	129	"	---	---	Q-04
Arsenic	42.7	0.349	1.39	"	"	34.9	8.50	98	"	---	---	
Barium	165	0.349	0.697	"	"	"	130	101	"	---	---	
Cadmium	35.9	0.349	0.697	"	"	"	1.58	98	"	---	---	
Chromium	93.8	0.697	1.39	"	"	"	55.6	110	"	---	---	
Copper	193	0.697	1.39	"	"	"	150	123	"	---	---	
Magnesium	5280	17.4	34.9	"	"	3490	2080	92	"	---	---	
Mercury	0.973	0.0279	0.0558	"	"	0.697	0.268	101	"	---	---	

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100961 - EPA 3051A							**Sediment**					
Matrix Spike (6100961-MS1)					Prepared: 10/25/16 14:15		Analyzed: 10/26/16 13:50					
QC Source Sample: CB-3-102016 (A6J0586-03)												
Nickel	72.3	0.697	1.39	mg/kg dry	"	34.9	35.8	105	"	---	---	
Silver	17.6	0.349	0.697	"	"	17.4	0.381	99	"	---	---	
Zinc	524	1.39	2.79	"	"	34.9	457	191	"	---	---	Q-03
Matrix Spike (6100961-MS2)					Prepared: 10/25/16 14:15		Analyzed: 10/26/16 14:05					
QC Source Sample: CB-3-102016 (A6J0586-03RE1)												
EPA 6020A												
Lead	3220	3.49	6.97	mg/kg dry	50	34.9	2610	1750	75-125%	---	---	Q-03, Q-16

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100793 - PSEP TOC												**Sediment**
Blank (6100793-BLK1)					Prepared: 10/20/16 08:50		Analyzed: 10/21/16 15:05					
PSEP/SM 5310B MOD												
Total Organic Carbon	ND	0.010	0.020	% by Weight	1	---	---	---	---	---	---	
LCS (6100793-BS1)					Prepared: 10/20/16 08:50		Analyzed: 10/21/16 15:05					
PSEP/SM 5310B MOD												
Total Organic Carbon	9400			mg/kg	1	10000	---	94	85-115%	---	---	
Duplicate (6100793-DUP1)					Prepared: 10/20/16 08:50		Analyzed: 10/21/16 15:05					
QC Source Sample: CB-1-102016 (A6J0586-01)												
PSEP/SM 5310B MOD												
Total Organic Carbon	**2.7**	0.010	0.020	% by Weight	1	---	2.8	---	---	5	20%	

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Darwin Thomas, Business Development Director

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100754 - Total Solids (Dry Weight)												**Soil**

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100746							
A6J0586-01RE1	Sediment	NWTPH-Dx	10/13/16 13:25	10/19/16 11:21	10.42g/5mL	10g/5mL	0.96
A6J0586-02	Sediment	NWTPH-Dx	10/13/16 11:25	10/19/16 11:21	10.2g/5mL	10g/5mL	0.98
A6J0586-03RE1	Sediment	NWTPH-Dx	10/13/16 14:00	10/19/16 11:21	10.06g/5mL	10g/5mL	0.99

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100735							
A6J0586-01	Sediment	NWTPH-Gx (MS)	10/13/16 13:25	10/13/16 13:25	5.25g/5mL	5g/5mL	0.95
A6J0586-02	Sediment	NWTPH-Gx (MS)	10/13/16 11:25	10/13/16 11:25	4.12g/5mL	5g/5mL	1.21
A6J0586-03	Sediment	NWTPH-Gx (MS)	10/13/16 14:00	10/13/16 14:00	6.2g/5mL	5g/5mL	0.81

Volatile Organic Compounds by EPA 8260B

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100735							
A6J0586-01	Sediment	5035/8260B	10/13/16 13:25	10/13/16 13:25	5.25g/5mL	5g/5mL	0.95
A6J0586-02	Sediment	5035/8260B	10/13/16 11:25	10/13/16 11:25	4.12g/5mL	5g/5mL	1.21
A6J0586-03	Sediment	5035/8260B	10/13/16 14:00	10/13/16 14:00	6.2g/5mL	5g/5mL	0.81

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100951							
A6J0586-01	Sediment	EPA 8082A	10/13/16 13:25	10/25/16 12:28	11.49g/5mL	10g/5mL	0.87
A6J0586-02RE1	Sediment	EPA 8082A	10/13/16 11:25	10/25/16 12:28	10.86g/5mL	10g/5mL	0.92
A6J0586-03RE1	Sediment	EPA 8082A	10/13/16 14:00	10/25/16 12:28	11.46g/5mL	10g/5mL	0.87

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100964							

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Darwin Thomas, Business Development Director

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Tigard, OR 97223
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503-718-0333 Fax

GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A6J0586-01RE1	Sediment	EPA 8081B	10/13/16 13:25	10/25/16 14:38	10.63g/20mL	10g/5mL	3.76
A6J0586-02RE2	Sediment	EPA 8081B	10/13/16 11:25	10/25/16 14:38	10.73g/20mL	10g/5mL	3.73
A6J0586-03RE2	Sediment	EPA 8081B	10/13/16 14:00	10/25/16 14:38	10.62g/20mL	10g/5mL	3.77

Semivolatile Organic Compounds by EPA 8270D

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100876							
A6J0586-01	Sediment	EPA 8270D	10/13/16 13:25	10/21/16 16:57	15.46g/2mL	15g/2mL	0.97
A6J0586-02	Sediment	EPA 8270D	10/13/16 11:25	10/21/16 16:57	15.58g/2mL	15g/2mL	0.96
A6J0586-03	Sediment	EPA 8270D	10/13/16 14:00	10/21/16 16:57	15.54g/2mL	15g/2mL	0.97

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100961							
A6J0586-01	Sediment	EPA 6020A	10/13/16 13:25	10/25/16 14:15	0.501g/50mL	0.5g/50mL	1.00
A6J0586-02	Sediment	EPA 6020A	10/13/16 11:25	10/25/16 14:15	0.509g/50mL	0.5g/50mL	0.98
A6J0586-03	Sediment	EPA 6020A	10/13/16 14:00	10/25/16 14:15	0.519g/50mL	0.5g/50mL	0.96
A6J0586-03RE1	Sediment	EPA 6020A	10/13/16 14:00	10/25/16 14:15	0.519g/50mL	0.5g/50mL	0.96

Conventional Chemistry Parameters

Prep: PSEP TOC

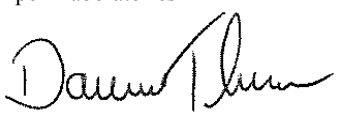
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6100793							
A6J0586-01	Sediment	PSEP/SM 5310B MOD	10/13/16 13:25	10/20/16 08:50	5g/5g	5g/5g	NA
A6J0586-02	Sediment	PSEP/SM 5310B MOD	10/13/16 11:25	10/20/16 08:50	5g/5g	5g/5g	NA
A6J0586-03	Sediment	PSEP/SM 5310B MOD	10/13/16 14:00	10/20/16 08:50	5g/5g	5g/5g	NA

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Sample	Default	RL Prep

Apex Laboratories



Darwin Thomas, Business Development Director

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 6100754							
A6J0586-01	Sediment	EPA 8000C	10/13/16 13:25	10/19/16 13:19	1N/A/1N/A	1N/A/1N/A	NA
A6J0586-02	Sediment	EPA 8000C	10/13/16 11:25	10/19/16 13:19	1N/A/1N/A	1N/A/1N/A	NA
A6J0586-03	Sediment	EPA 8000C	10/13/16 14:00	10/19/16 13:19	1N/A/1N/A	1N/A/1N/A	NA

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

Notes and Definitions

Qualifiers:

C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
M-02	Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
Q-02	Spike recovery is outside of established control limits due to matrix interference.
Q-03	Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-16	Reanalysis of an original Batch QC sample.
Q-17	RPD between original and duplicate sample is outside of established control limits.
Q-31	Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-04	Reporting levels elevated due to dilution necessary for analysis.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit

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GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29

NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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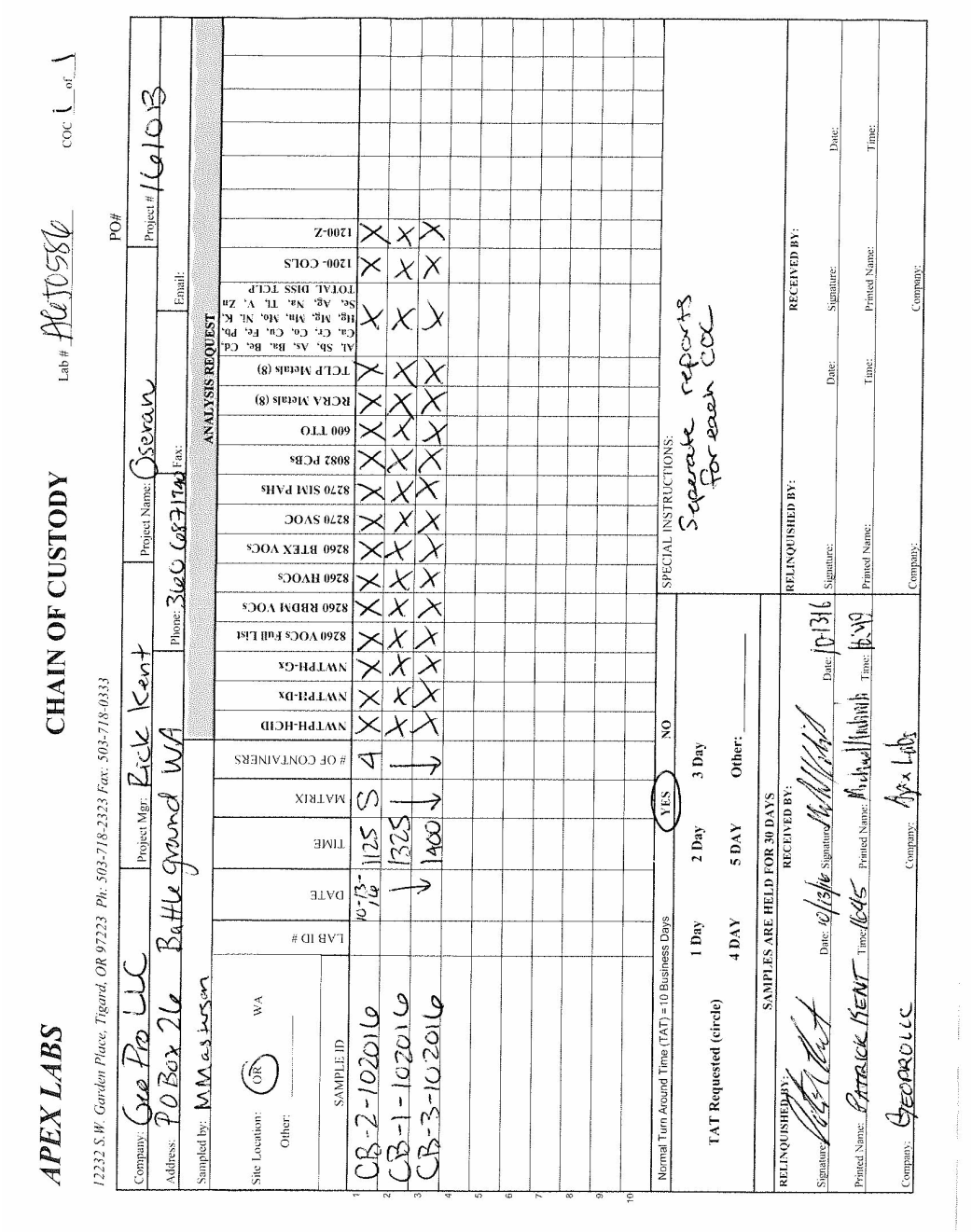
GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29



APEX LABS — **CHAIN OF CUSTODY** — Lab # AET0580 — COC 1 of 1 — PO#

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: GeoPro LLC | Project Mgr: Rick Kent | Project Name: Osrean | Project # 161013

Address: PO Box 26 Battle Ground WA | Phone: 360 687 1740 Fax: | Email:

Sampled by: MMasterson

Site Location: (OR) WA — Other: ____

#	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDMI VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200- COLS	1200-Z
1	CB-2-102016		10-13-16	1125	S	4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	CB-1-102016		↓	1325	↓	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	CB-3-102016		↓	1400	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Normal Turn Around Time (TAT) = 10 Business Days — YES / NO

SPECIAL INSTRUCTIONS: Separate reports for each COC

TAT Requested (circle): 1 Day | 2 Day | 3 Day | 4 DAY | 5 DAY | Other: ____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: [signature] Printed Name: Patrick Kent Company: GeoPro LLC

RECEIVED BY: Signature: [signature] Date: 10/13/16 Time: 1645 Printed Name: [signature] Company: Apex Labs

RELINQUISHED BY: Signature: [signature] Date: 10/13/16 Time: 1645 Printed Name: [signature] Company: Apex Labs

RECEIVED BY: Signature: [signature] Date: 10/13/16 Time: 1645 Printed Name: [signature] Company: Apex Labs

Apex Laboratories

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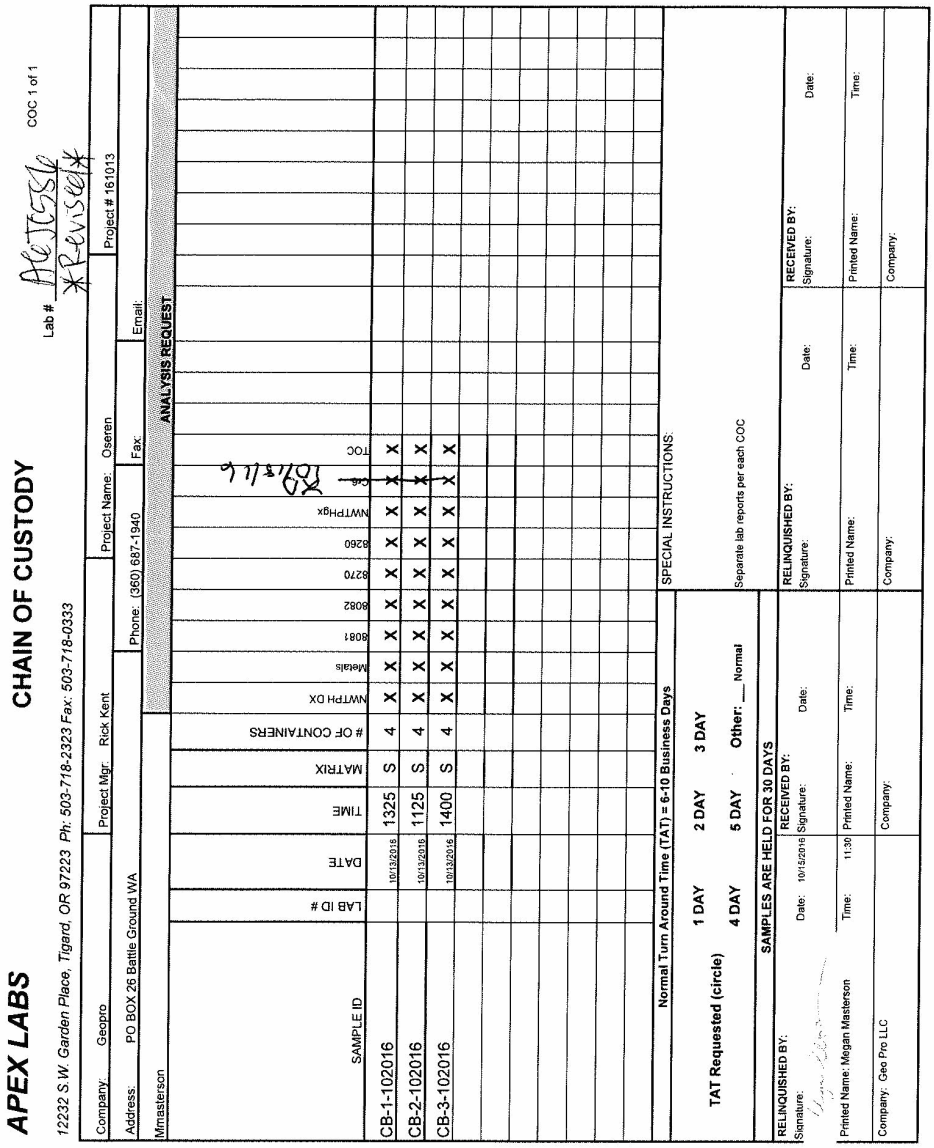
Darwin Thomas, Business Development Director

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

GeoPro LLC	Project: **States Battery -- Osrean 2016**	
PO Box 26	Project Number: 161013	**Reported:**
Battle Ground, WA 98604	Project Manager: Richard Kent	11/20/16 09:29



APEX LABS — **CHAIN OF CUSTODY** — COC 1 of 1

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Lab # Rejected *Revised*

Company: Geopro | Project Mgr: Rick Kent | Project Name: Oseren | Project # 161013

Address: PO BOX 26 Battle Ground WA | Phone: (360) 687-1940 | Fax: | Email:

Mmasterson

ANALYSIS REQUEST

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH DX	Metals	8081	8082	8270	8260	NWTPHgx	~~CHs~~	TOC
CB-1-102016		10/13/2016	1325	S	4	X	X	X	X	X	X	X	X	X
CB-2-102016		10/13/2016	1125	S	4	X	X	X	X	X	X	X	X	X
CB-3-102016		10/13/2016	1400	S	4	X	X	X	X	X	X	X	X	X

Normal Turn Around Time (TAT) = 6-10 Business Days

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 DAY 2 DAY 3 DAY 4 DAY 5 DAY Other: ___ Normal

Separate lab reports per each COC

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature:	Date: 10/13/2016	RECEIVED BY: Signature:	Date:	RELINQUISHED BY: Signature:	Date:	RECEIVED BY: Signature:	Date:
Printed Name: Megan Masterson	Time: 11:30	Printed Name:	Time:	Printed Name:	Time:	Printed Name:	Time:
Company: Geo Pro LLC		Company:		Company:		Company:	

Apex Laboratories

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Darwin Thomas, Business Development Director

GeoPro LLC
Post Office Box 26
Battle Ground, WA 98604
(360) 687-1940

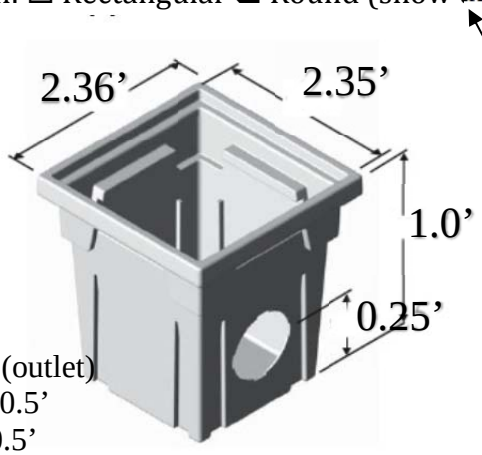
SEDIMENT SAMPLE FIELD LOG (Catch Basin)

DAY/DATE: Thursday / October 13, 2016	SHEET 1 of 1
PROJECT NAME: Oseran Properties / States Battery	PROJECT NO.: 161013
PROJECT LOCATION: 2245 NW Suffolk St. Portland, OR	
Weather: ☐Fair ☐Overcast ☐Fog ☒Rain ☐Snow Temp.: ☐<0 ☐0-32 ☐33-54 ☒55-79 ☐>80 Humidity %: ☐<25 ☐26-49 ☐50-74 ☒>75	Wind: ☒Calm ☐Light ☐Moderate ☐Strong Wind from: ☐N ☐NE ☐E ☐SE ☐S ☐SW ☐W ☐NW Precip.: ☐None ☐Mist ☐Light ☒Moderate ☐Heavy

LOCATION: CB-1	**SAMPLE NUMBER: CB-1-102016**
Time Sample Collected: 1325	❑ Composite ☒ Grab
Collection device: ☒ Scoop ❑ Corer ❑ Other	Sediment sample depth(s): ~ 1 ft.
Water above sample: 0.3 ft. ❑ Sheen	Sample Color: Very dark brown (saturated)
Sample texture: Gravelly sand w/ some silt and trace clay. Contains ~2-in size clumps of grey sandy silt (maybe concrete sluff?)	Sample Odor: Rotten organic matter

Sketch: ☒ Rectangular ❑ Round (show diam)

Show



Pipe (outlet)
OD: 0.5’
ID: 0.5’

Survey (MSL): Rim 36.61 ft, SW Outlet 35.66 ft, Sump 33.91 ft

Sample Collection Method:

A separate amount of material was placed in a plastic baggie and a PID measurement was taken.
Moist or wet solids were sampled in a manner to retain form and structure.
Collection devices were made of stainless steel and decontaminated between sampling locations.
New latex gloves were used during sample collection.
Samples were placed in appropriate containers suitable for analyses requested prepared by the lab. The containers were filled to prevent air-entrapment, sealed, labeled, and placed in an ice chest with blu-ice for transport to the laboratory.
Filters, if present, were removed prior to sampling.

Texture:

Sand – particles 0.06-2mm diam., gritty texture between fingers; loose, non-cohesive, non-plastic
Silt – particles 0.004-0.06mm diam., greasy, smooth, talc-like feel, non-plastic, non-cohesive
Clay – particles <0.004mm diam., forms dense, gummy surface, smears on finger
Non-plastic – 1/8th thread cannot be rolled; Low plasticity – 1/8th thread barely rolled; Med. plastic – easily roll 1/8th thread
Detritus – dead, unconsolidated organic material: sticks, wood, leaves, decayed coarse plant material
Muck – black, very fine, flocculant material composed of completely decomposed organic material

Analysis Requested: NWTPH-Gx, NWTPH-Dx, VOC, PAH, PCB, 14 Metals (Dissolved and Total), TOC
Laboratory Name: Apex Labs, Tigard, OR. COC No. A6J0586

Comments: Photo #s: 4314-15 PID: 1.4 (bkgd: 1.0)
Catch basin is 8.2 ft NE from sewer manhole cover marked (S)

PRINT NAME: Megan Masterson/Pat Kent

SIGNATURE:

Figure 2

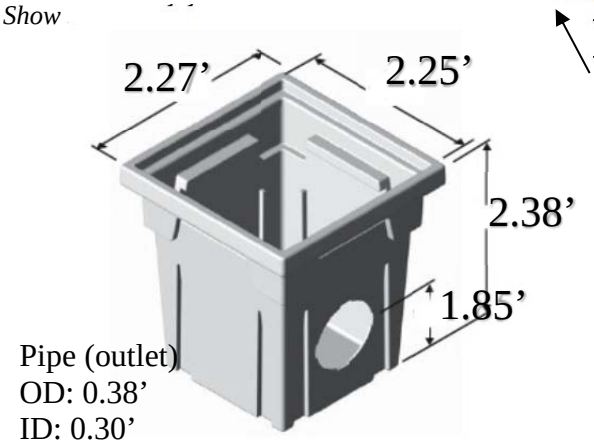
GeoPro LLC
Post Office Box 26
Battle Ground, WA 98604
(360) 687-1940

SEDIMENT SAMPLE FIELD LOG (Catch Basin)

DAY/DATE: Thursday / October 13, 2016	SHEET 1 of 1
PROJECT NAME: Oseran Properties / States Battery	PROJECT NO.: 161013
PROJECT LOCATION: 2740 NW 22nd Pl. Portland, OR	
Weather: ☐Fair ☐Overcast ☐Fog ☒Rain ☐Snow Temp.: ☐<0 ☐0-32 ☐33-54 ☒55-79 ☐>80 Humidity %: ☐<25 ☐26-49 ☐50-74 ☒>75	Wind: ☒Calm ☐Light ☐Moderate ☐Strong Wind from: ☐N ☐NE ☐E ☐SE ☐S ☐SW ☐W ☐NW Precip.: ☐None ☐Mist ☐Light ☒Moderate ☐Heavy

LOCATION: **CB-2**	**SAMPLE NUMBER: CB-2-102016**
Time Sample Collected: 1125	❑ Composite ☒ Grab
Collection device: ☒ Scoop ❑ Corer ❑ Other	Sediment sample depth(s): ~ 2 ft.
Water above sample: 2 ft. ☒ Sheen	Sample Color: Very dark greyish black (saturated)
Sample texture: Silt w/ some med-coarse sand, moderate organic material	Sample Odor: slight petroleum odor

Sketch: ☒ Rectangular ❑ Round (show diam)
Show



Survey (MSL): Rim 39.69 ft, NW Outlet w/oil trap 38.94 ft, SSW Inlet 38.74 ft, Sump 36.94 ft

Sample Collection Method:

A separate amount of material was placed in a plastic baggie and a PID measurement was taken.
Moist or wet solids were sampled in a manner to retain form and structure.
Collection devices were made of stainless steel and decontaminated between sampling locations.
New latex gloves were used during sample collection.
Samples were placed in appropriate containers suitable for analyses requested prepared by the lab. The containers were filled to prevent air-entrapment, sealed, labeled, and placed in an ice chest with blu-ice for transport to the laboratory.
Filters, if present, were removed prior to sampling.

Texture:

Sand – particles 0.06-2mm diam., gritty texture between fingers; loose, non-cohesive, non-plastic
Silt – particles 0.004-0.06mm diam., greasy, smooth, talc-like feel, non-plastic, non-cohesive
Clay – particles <0.004mm diam., forms dense, gummy surface, smears on finger
Non-plastic – 1/8th thread cannot be rolled; Low plasticity – 1/8th thread barely rolled; Med. plastic – easily roll 1/8th thread
Detritus – dead, unconsolidated organic material: sticks, wood, leaves, decayed coarse plant material
Muck – black, very fine, flocculant material composed of completely decomposed organic material

Analysis Requested: NWTPH-Gx, NWTPH-Dx, VOC, PAH, PCB, 14 Metals (Dissolved and Total), TOC
Laboratory Name: Apex Labs, Tigard, OR. COC No. A6J0586

Comments: PID: 1.6 (bkgd: 1.1)

PRINT NAME: Megan Masterson/Pat Kent

SIGNATURE:

Figure 3

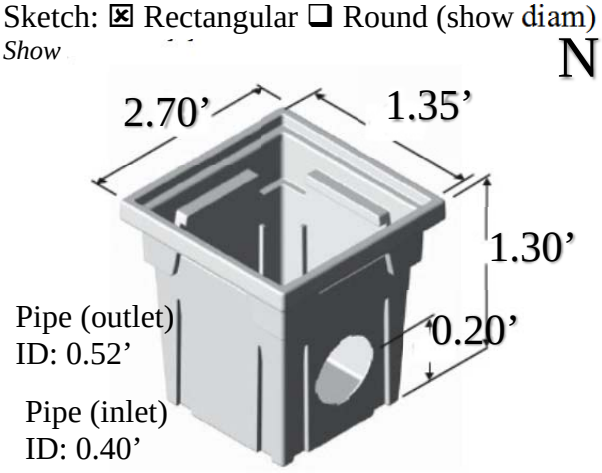
GeoPro LLC
Post Office Box 26
Battle Ground, WA 98604
(360) 687-1940

SEDIMENT SAMPLE FIELD LOG (Catch Basin)

DAY/DATE: Thursday / October 13, 2016	SHEET 1 of 1
PROJECT NAME: Oseran Properties / States Battery	PROJECT NO.: 161013
PROJECT LOCATION: 2258 NW Suffolk St. Portland, OR	
Weather: ☐Fair ☐Overcast ☐Fog ☒Rain ☐Snow Temp.: ☐<0 ☐0-32 ☐33-54 ☒55-79 ☐>80 Humidity %: ☐<25 ☐26-49 ☐50-74 ☒>75	Wind: ☒Calm ☐Light ☐Moderate ☐Strong Wind from: ☐N ☐NE ☐E ☐SE ☐S ☐SW ☐W ☐NW Precip.: ☐None ☐Mist ☒Light ☐Moderate ☐Heavy

LOCATION: CB-3	**SAMPLE NUMBER: CB-3-102016**
Time Sample Collected: 1400	❑ Composite ☒ Grab
Collection device: ☒ Scoop ❑ Corer ❑ Other	Sediment sample depth(s): 1.3 ft.
Water above sample: 0.15 ft. ☐ Sheen	Sample Color: Very dark brown (saturated)
Sample texture: Silt w/ some gravel and organic matter and trace sand.	Sample Odor: None

Sketch: ☒ Rectangular ❑ Round (show diam)
Show



Survey (MSL): Rim 36.11 ft, NW Outlet 34.76 ft, SE Inlet 34.89 ft, Sump 34.80 ft

Sample Collection Method:

Standing water, if any, was pumped or scooped from the top of the sediment, leaving a thin layer.
Moist or wet solids were sampled in a manner to retain form and structure.
Collection devices were made of stainless steel and decontaminated between sampling locations.
New latex gloves were used during sample collection.
If composite, an equal amount of material was collected from each corner and the center of the catch basin to total depth, then thoroughly mixed in a bowl, from which selected material was placed in appropriate sample containers.
Samples were placed in appropriate containers suitable for analyses requested prepared by the lab. The containers were filled to prevent air-entrapment, sealed, labeled, and placed in an ice chest with blu-ice for transport to the laboratory.
Depths of material and water were measured with a disposable wooden dowel.
Filters, if present, were removed prior to sampling.
No confined space entry was performed.

Texture:

Sand – particles 0.06-2mm diam., gritty texture between fingers; loose, non-cohesive, non-plastic
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Laboratory Name: Apex Labs, Tigard, OR. COC No. A6J0586

Comments: PID: 0.9 (bkgd: 0.9)

PRINT NAME: Megan Masterson/Pat Kent	SIGNATURE:

Figure 4